WAGO Power Supplies

Edition 2023/2024

WAGO Full Line Catalogs

WAGO Rail-Mount Terminal Blocks and Connectors

- Rail-Mount Terminal Blocks
- Rail-Mount Terminal Blocks with Pluggable Connector (X-COM®-SYSTEM)
- Patchboard Systems
- Terminal Strips
- PUSH WIRE® Connectors for Junction Boxes
- Lighting Connectors
- Shield Connecting System

WAGO PCB Terminal Blocks and Connectors

- PCB Terminal Blocks
- THR/SMD PCB Terminal Blocks
- *MULTI CONNECTION SYSTEM (MCS)*
- Pluggable PCB Terminal Blocks
- Feedthrough Terminal Blocks
- Specialty Connectors
- Empty Housings

WAGO Pluggable Connection System *WINSTA*®

- Pluggable Connectors
- Snap-In Device Connectors
- Pluggable PCB Connectors
- Distribution Connectors
- Cable Assemblies
- Flat Cable Systems
- Distribution Boxes

WAGO Automation Technology

- Solutions & Software
- Operating & Monitoring
- Controllers, Edge Devices
- Modular I/O-SYSTEM IP20, I/O-SYSTEM IP67
- Industrial Switches
- Radio Technology
- IP67 Sensor/Actuator Boxes, IP67 Cables and Connectors

WAGO Interface Electronics

- Relay and Optocoupler Modules
- Signal Conditioners and Isolation Amplifiers
- Current and Energy Measurement Technology
- Power Supplies
- Interface Modules and System Wiring
- Overvoltage Protection
- Empty Housings

WAGO Power Supplies

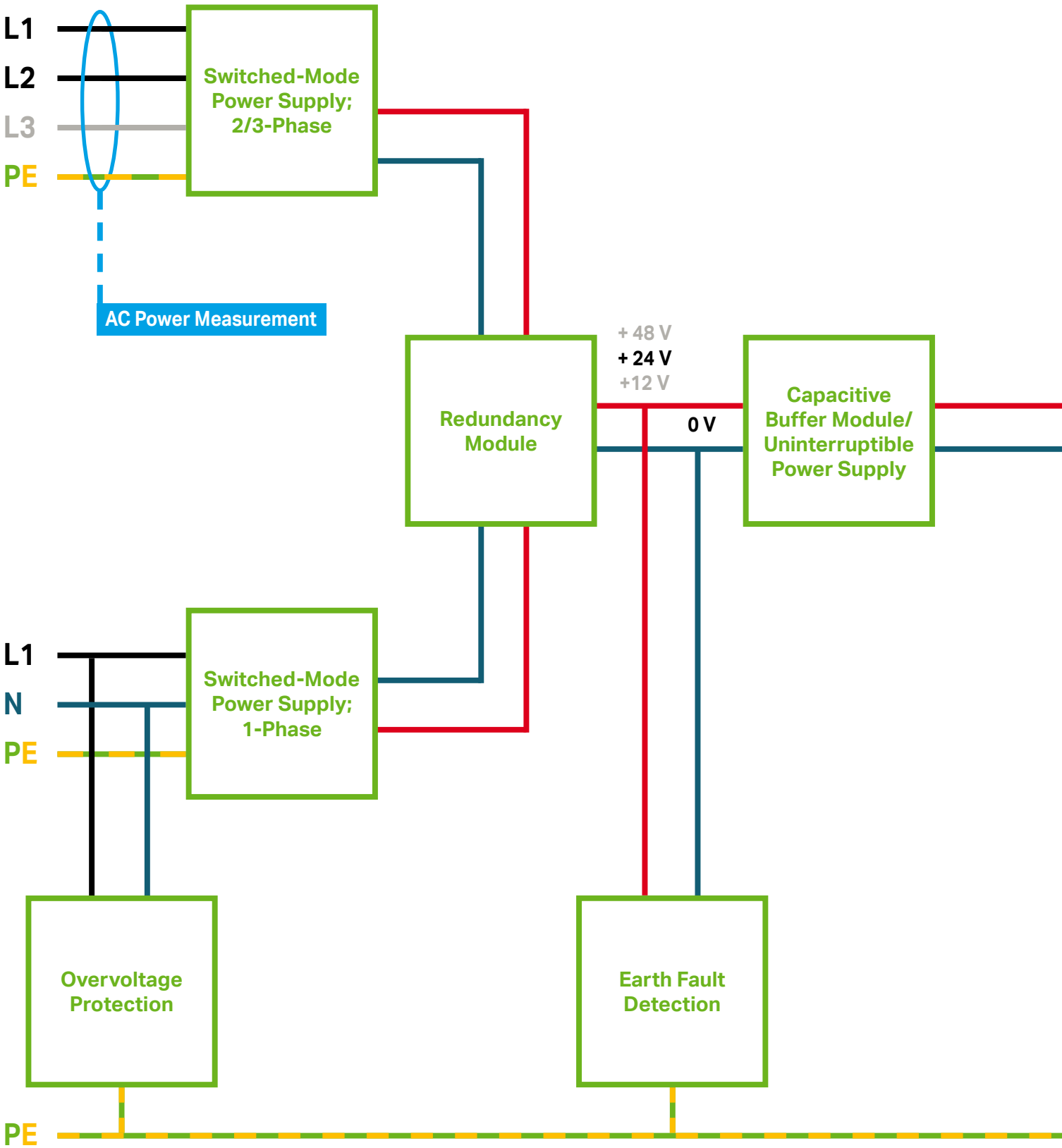
- Power Supplies
- DC/DC Converters
- Circuit Protection
- UPS-Charger and Capacitive Buffer Modules
- Redundancy Moduls
- Current and Energy Measurement Technology
- Overvoltage Protection

WAGO Marking

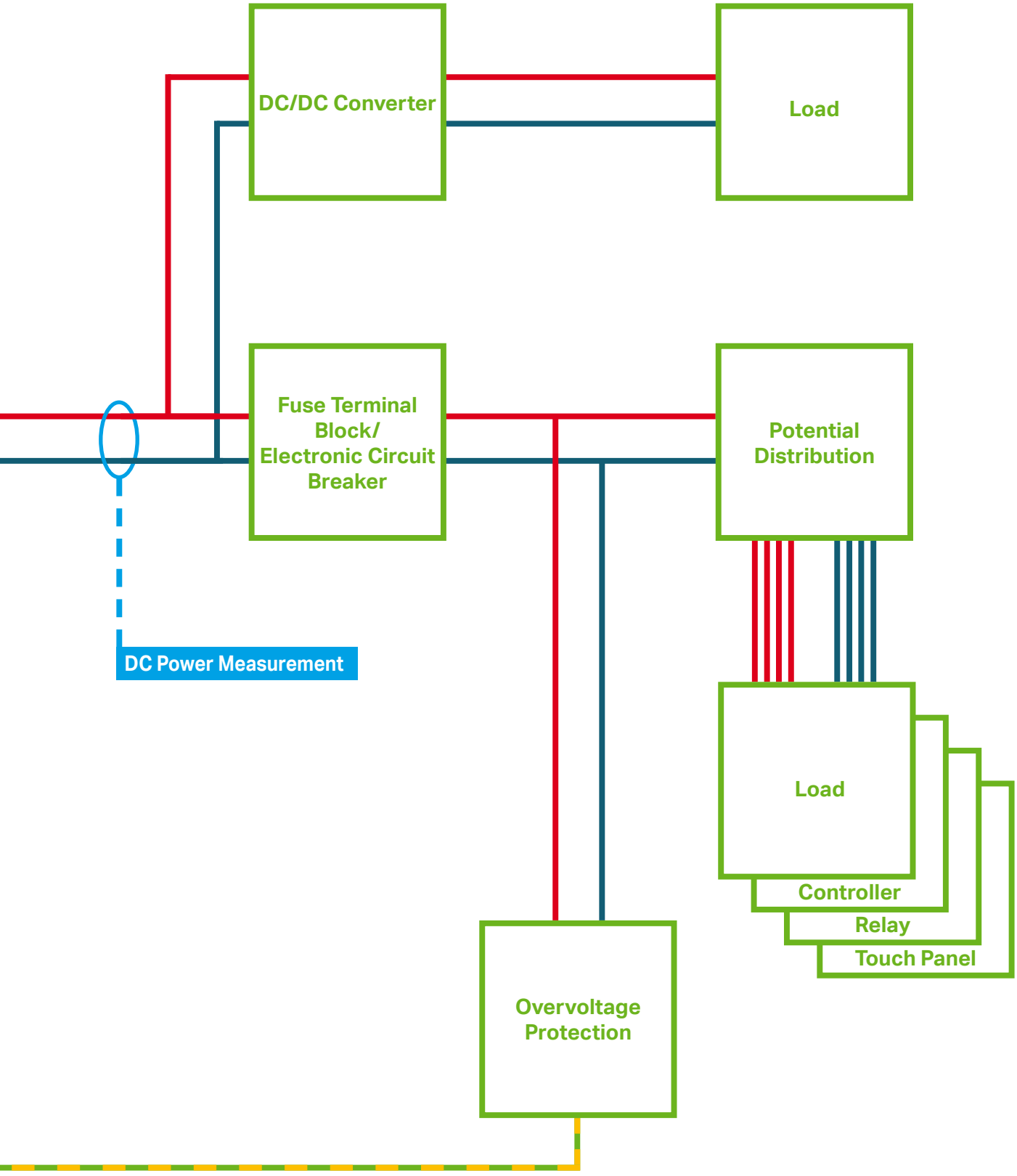
- Printer
- Software
- Terminal Block Marking
- Cable and Conductor Marking
- Device Marking
- Marker Carriers

WAGO Power Supplies 2023/2024

WAGO Power Supplies
System Overview



WAGO Power Supplies
System Overview



WAGO Power Supplies

WAGO Power Supplies Pro 2

New Generation of Professional Power Supplies for Applications Requiring High Performance, Efficiency and Reliability

WAGO's Pro 2 Power Supplies offer tremendous added value thanks to flexible configuration and comprehensive monitoring via optional communication interface (WAGO USB Communication Cable and IO-Link Communication Module).

Advantages:
- TopBoost function: Up to 600% output current for 15 ms
- PowerBoost function: 150% output power for 5 s
- High efficiency thanks to a CCFL inverter topology
- Single- and three-phase power supplies with output voltages of 24 VDC and nominal output currents from 5 to 40 A
- Communication interface for configuring threshold values, overload and DI/DO behavior, as well as monitoring output variables, warning and error messages
- Permanent communication via IO-Link through an optional pluggable communication module

WAGO Power Supplies Pro

Applications with high output requirements call for professional power supplies capable of reliably handling power peaks. WAGO's Pro Power Supplies are ideally suited for such applications.

- TopBoost function: Multiplies the nominal current for up to 50 ms
- PowerBoost function: Provides 200% of output power for four seconds
- Single- and three-phase power supplies with output voltages of 12/24/48 VDC and nominal output currents from 5 to 40 A for nearly every application
- LineMonitor (option): Easy parameter setting and input/output monitoring
- Potential-free contact/stand-by input: Switch off output with no wear and minimize power consumption
- Serial RS-232 interface (option): Communicate with PC or PLC

WAGO Power Supplies Classic

Classic is the robust power supply with optional TopBoost integration. A wide input range and extensive list of international approvals open up WAGO's Classic Power Supplies to a wide variety of applications.

- TopBoost: cost-effective, secondary-side fusing via standard circuit breakers (≥ 120 W)
- Nominal output voltage: 12, 24, 30.5 and 48 VDC
- DC OK signal/contact for easy remote monitoring
- Wide input voltage range and UL/GL approvals for worldwide applications
- CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- Slim, compact design saves valuable cabinet space

WAGO Power Supplies

WAGO Power Supplies Eco

Many applications only require 24 VDC. Here, WAGO's ECO Power Supplies are the economical solution.

- Output current: 1.25 … 40 A
- Wide input voltage range for use internationally: 90 … 264 VAC
- Economically supports basic applications
- CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- LED status indication: output voltage availability (green), overcurrent/short circuit (red)
- Flexible mounting on DIN-rail and variable installation via screw-mount clips – perfect for every application
- Flat, rugged metal housing: compact and stable design

WAGO Power Supplies Eco 2

The Eco line of power supplies now includes WAGO Eco 2 Power Supplies with push-in technology and integrated WAGO levers. The new devices' compelling features include fast, reliable and tool-free lever connections, as well as an excellent price/performance ratio. At 25 mm and 38 mm wide, the power supplies are slim and compact. The devices are also extremely durable and reliable with their high efficiency of ≥ 88% (2687-2142) and lower thermal generation.

- Power supplies with a wide input voltage range of 90 … 264 VAC (100 … 373 VDC)Output voltage: 24 VDC, adjustable; Output power: 30 W (2687-2142) and 120 W (2687-2144)
- Integrated, tool-free lever-actuated push-in connection technology
- Slim design, high efficiency, good price/performance ratio
- Reliability, long service life (high MTBF)
- Quick, easy, maintenance- and tool-free connection technology

WAGO Power Supplies Compact

WAGO's compact, high-performance Compact Power Supplies in DIN-rail-mount housings are available with output voltages of 5, 12, 18 and 24 VDC, as well as nominal output currents up to 6.5 A.

- Wide input voltage range for use internationally: 85 … 264 VAC
- Flexible mounting on DIN-rail and variable installation via screw-mount clips
- Push-in CAGE CLAMP® Connection Technology (option): maintenance-free and time-saving
- Improved cooling due to a removable front plate: ideal for alternative mounting positions
- Dimensions per DIN 43880: suitable for installation in distribution and meter boards

WAGO Power Supplies

Uninterruptible Power Supply (UPS)

Consisting of a 24 V UPS charger and controller with one or more connected batteries, WAGO's Uninterruptible Power Supply reliably powers an application for several hours. Trouble-free machine or system operation is guaranteed – even in the event of brief power supply failures.

- Slim charging and control units save control cabinet space
- Integrated display and RS-232 interface (option) simplify visualization and configuration
- Pluggable CAGE CLAMP® Connection Technology: maintenance-free and time-saving
- Battery control technology for predictive maintenance that extends battery life

Capacitive Buffer Modules

In addition to reliably ensuring trouble-free machine and system operation – even through brief power failures – WAGO's Capacitive Buffer Modules offer power reserves that may be required when starting heavy motors or triggering a fuse.
Decoupled output: integrated diodes for decoupling buffered loads from unbuffered loads

- Maintenance-free and time-saving connections via pluggable connectors equipped with CAGE CLAMP® Connection Technology
- Unlimited parallel connections possible
- Adjustable switching threshold
- Maintenance-free, high-energy gold caps

Redundancy Modules

WAGO's redundancy modules are ideal for reliably increasing power supply availability. These modules decouple two parallel-connected power supplies and are ideal for applications where an electrical load must be reliably supplied – even in the event of a power supply failure.

- Integrated power diodes with overload capability: suitable for TopBoost or PowerBoost
- Potential-free contact (option) for input voltage monitoring
- Reliable connection via pluggable connectors equipped with CAGE CLAMP® or terminal strips with integrated operating levers: maintenance-free and time-saving
- Solutions for 12, 24 and 48 VDC supply, up to 76 A supply: suitable for nearly every application

WAGO Power Supplies

Electronic Circuit Breakers (ECBs)

WAGO's ECBs are the space-saving and precision solution for fusing DC voltage circuits.

- 1-, 2-, 4- and 8-channel ECBs with fixed or adjustable currents ranging from 0.5 to 12 A
- High switch-on capacity: >50,000 µF
- Communication capability: remote monitoring and reset
- Pluggable CAGE CLAMP® Connection Technology (option): maintenance-free and time-saving
- Comprehensive range of approvals: many applications

DC/DC Converters

Instead of using an additional power supply, WAGO's DC/DC Converters are ideal for specialty voltages, allowing sensors and actuators to be reliably supplied.
DC/DC converters can be used instead of an additional power supply for applications with specialty voltages.

- Slim design: "True" 6.0 mm (0.23 inch) width maximizes panel space
- Wide operating temperature range
- Ready for worldwide use in many industries, thanks to UL listing
- Common profile with 857 and 2857 Series Signal Conditioners and Relays: Enables full commoning of the supply voltage

WAGO Power Supplies; 1-Phase

WAGO Power Supplies; 1-Phase

WAGO Power Supplies; 1-Phase
Selection Guide

1

Nominal voltage (output)	Nominal current (output) [ADC]	Input, 1-phase	Input, 2-phase	Approvals: EN 60335	cURus 60950	cULus 508	cULus 61010	DNV	ANSI/ISA 12.12.1	ATEX/IEC Ex	DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Ambient temperature temperature [°C] [4]	Item Number	Page
5 VDC	5.5	■			■	■									75.0	–25 … +60	787-1020	71
12 VDC	2.0	■		■	■	■		■			■				82.0	–25 … +70	787-1601 [2]	30
	2.0	■		■											80.0	–25 … +60	787-1701	49
	2.0	■			■	■		■							80.0	–25 … +60	787-1001	72
	2.5	■		■		■					■				88.0	–25 … +70	787-1201	61
	4.0	■		■	■	■		■			■				86.0	–25 … +70	787-1611 [2]	31
	4.0	■		■											81.0	–25 … +60	787-1711	50
	4.0	■			■	■		■							85.0	–25 … +60	787-1011	73
	5.0	■		■	■	■									89.5	–25 … +70	787-1211	62
	6.0	■			■	■		■							87.0	–25 … +60	787-1021	74
	7.0	■		■	■	■		■			■				86.0	–25 … +70	787-1621	32
	8.0	■		■											84.0	–25 … +60	787-1721	51
	8.0	■		■		■					■				91.5	–25 … +70	787-1221	63
	10.0	■					■				■		■	■	93.8	–25 … +70	2787-2134	12
	15.0						■				■		■	■	95.3	–25 … +70	2787-2135	13
	15.0	■			■	■		■			■		■		90.0	–25 … +70	787-1631	33
DC 18 V	2.4	■			■	■		□							83.0	–25 … +60	787-1017	75
	1.25	■					■				■				88.0	–25 … +70	787-2857	69
24 VDC	0.5	■		■		■									83.0	–25 … +70	787-1200	64
	1.0	■		■	■	■		■			■				86.0	–25 … +70	787-1602 [2]	34
	1.25	■		■	■	■									80.0	–20 … +60	787-1702	52
	1.25	■					■								88.0	–25 … +70	2687-2142	46
	1.25	■				■		■							88.0	–20 … +70	787-2850	70
	1.3	■			■	■		■							82.0	–25 … +60	787-1002	76
	1.3	■		■	■	■									87.0	–25 … +70	787-1202	65
	2.0	■		■	■	■		■			■				89.0	–25 … +70	787-1606 [2]	35
	2.5	■			■	■			■	■					86.0	–10 … +70	787-712	55
	2.5	■		■	■	■									81.0	–20 … +60	787-1712	53
	2.5	■			■	■		■							88.0	–25 … +60	787-1012	77
	2.5	■		■	■	■									89.0	–25 … +70	787-1212	66
	3.0	■			■	■					■		■	■	87.8	–25 … +70	787-818	24
	3.8	■		■	■	■		■			■				87.0	–25 … +70	787-1616/000-1000 [2]	36
	4.0	■		■	■	■		■			■				89.0	–25 … +70	787-1616	37
	4.0	■			■	■		■							88.0	–25 … +60	787-1022	78
	4.2	■		■	■	■									90.0	–25 … +70	787-1216	67
	5.0	■					■				■		■	■	91.5	–25 … +70	2787-2144	14
	5.0	■			■	■					■		■	■	87.8	–25 … +70	787-822	25
	5.0	■		■	■	■		■			■		■		89.0	–25 … +70	787-1622	38
	5.0	■	■		■	■		■			■		■		89.0	–25 … +70	787-1628	44
	5.0	■			■	■			■	■					86.0	–10 … +60	787-722	56
	5.0	■		■	■	■									84.0	–20 … +60	787-1722	57
	5.0	■					■								90.0	–25 … +70	2687-2144	47
	6.0	■		■	■	■									90.0	–25 … +70	787-1226	68
	10.0	■					■								93.0	–25 … +70	2687-2146	48
	10.0	■					■				■		■	■	92.8	–25 … +70	2787-2146	15
	10.0	■			■	■					■		■	■	90.0	–25 … +70	787-832	25
	10.0	■			■	■		■			■		■		91.0	–25 … +70	787-1632 [5]	39
	10.0	■	■		■	■		■			■		■		90.0	–25 … +70	787-1638	45
	10.0	■			■	■			■	■					86.0	–10 … +70	787-732	59
	10.0	■		■	■	■									84.0	–20 … +60	787-1732	58
	20.0	■					■				■		■	■	94.0	–25 … +70	2787-2147	16
	20.0	■			■	■					■		■	■	91.0	–25 … +70	787-834	27
	20.0	■			■	■		■			■		■		92.0	–25 … +70	787-1634	40
	20.0	■			■	■					■				90.0	–25 … +70	787-734	60
	40.0	■					■				■		■	■	95.0	–25 … +70	2787-2448	17
	40.0	■			■	■					■				90.0	–25 … +70	787-736	54

1

Nominal voltage (output)	Nominal current (output) [ADC]	Input, 1-phase	Input, 2-phase	Approvals							DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Ambient temperature temperature [°C] [4]	Item Number	Page
				EN 60335	cURus 60950	cULus 508	cULus 61010	DNV	ANSI/ISA 12.12.1	ATEX/IEC Ex								
48 VDC	2.0	■		■	■	■		■			■				86.0	–25 … +70	**787-1623**	41
	5.0	■					■				■		■	■	95.3	–25 … +70	**2787-2154**	18
	5.0	■			■	■					■		■	■	91.0	–25 … +70	**787-833**	28
	5.0	■			■	■		■			■		■		92.0	–25 … +70	**787-1633**	42
	10.0	■					■				■		■	■	95.3	–25 … +70	**2787-2157**	19
	10.0	■			■	■					■		■	■	91.0	–25 … +70	**787-835**	29
	10.0	■			■	■		■			■		■		93.0	–25 … +70	**787-1635** [5]	43

■ Yes ☐ Pending

[1] TopBoost enables magnetic tripping of circuit breakers in the output circuit.

[2] NEC Class 2 Power Unit per cURus 1310 or cURus 60950

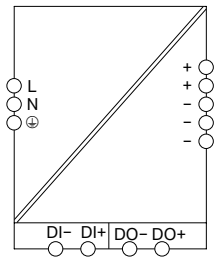
[3] With uninterruptible power supply (UPS)

[4] Device starts at –40°C, type-tested for 787-8xx, -10xx, -16xx, 2787-2xxx

[5] …/000-070 is optionally available with protective coating

Power supply; Pro 2; 1-phase; 12 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability
2787 Series

1



Power supply; Pro 2; 1-phase; 12 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

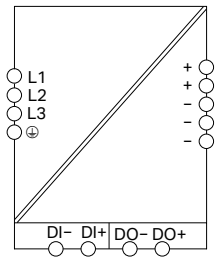
	Item No.	PU
	2787-2134	1

Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 1.3 A
Inrush current	≤ 9.6 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 40 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	12 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (12 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 15 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 1.6 W (no load); ≤ 10 W (230 VAC; nominal load)
Efficiency (typ.)	93.8 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,200,000 h (per IEC 61709)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	35 x 130 x 130 (mm) / 1.378 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	650 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at –40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 12 VDC output voltage; 15 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 1-phase; 12 VDC output voltage; 15 A output current; TopBoost + PowerBoost; Communication capability

Item No.	PU
2787-2135	1

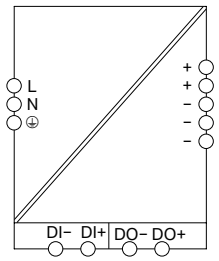
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 2 A (240 VAC; nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 40 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Nominal output current $I_{o\,nom}$	15 A (12 VDC)
Nominal output power	180 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 22.5 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015)
Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 2.3 W (no load); ≤ 14 W (230 VAC; nominal load)
Efficiency (typ.)	95.3 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection	
Isolation voltage (sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,200,000 h (per IEC 61709)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	70 x 130 x 130 (mm) / 2.756 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	1000 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-2-201

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Communication capability
2787 Series

1



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Communication capability

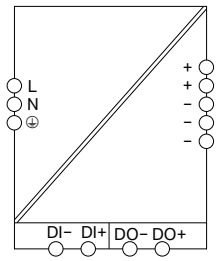
	Item No.	PU
	2787-2144	1
DNV	**2787-2144/000-030**	1
DNV + Protective coating	**2787-2144/000-070**	1

Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 1 A (240 VAC; nominal load); ≤ 1.8 A (100 VAC; nominal load)
Inrush current	≤ 9 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 7.5 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 1 W (standby); ≤ 2 W (no load); ≤ 10 W (230 VAC; nominal load)
Efficiency (typ.)	93.8 % (230 VAC; 5 A; 25 °C)
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,000,000 h (per IEC 61709)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	35 x 130 x 130 (mm) / 1.378 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	650 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2146	1
DNV	**2787-2146/000-030**	1
DNV + Protective coating	**2787-2146/000-070**	1

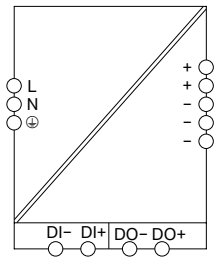
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 1.2 A (240 VAC; nominal load); ≤ 2.7 A (100 VAC; nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 15 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 1 W (standby); ≤ 2.2 W (no load); ≤ 12 W (230 VAC; nominal load)
Efficiency (typ.)	95.2 % (230 VAC; 10 A; 25 °C)
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,200,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> +55 °C and U_i < 230 VAC); −3 %/K (> +60 °C and U_i ≥ 230 VAC)
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	50 x 130 x 130 (mm) / 1.969 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	1385 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability
2787 Series

1



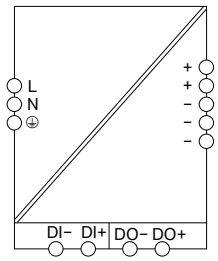
Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2147	1
DNV	**2787-2147/000-030**	1
DNV + Protective coating	**2787-2147/000-070**	1

Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 2.2 A (240 VAC; nominal load); ≤ 5.9 A (100 VAC; nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor	≥ 0.98 (240 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 30 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 1.3 W (standby); ≤ 2.6 W (no load); ≤ 24 W (230 VAC; nominal load)
Efficiency (typ.)	95.4 % (230 VAC; 20 A; 25 °C)
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-1 %/V (> +40 °C and U_i < 100 VAC); −3 %/K (> +55 °C and U_i < 230 VAC); −3 %/K (> +60 °C and U_i ≥ 230 VAC); −5 %/V (U_o > 24 VDC)
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	70x 130 x 130 (mm) / 2.756 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 169 mm
Mounting type	DIN-35 rail
Weight	1450 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; Communication capability; Input voltage range: 200 … 240 VAC
2787 Series



Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; Communication capability; Input voltage range: 200 … 240 VAC

	Item No.	PU
	2787-2448	1
DNV	**2787-2448/000-030**	1
DNV + Protective coating	**2787-2448/000-070**	1

Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x AC 200 … 240 V
Input voltage range	1 x AC 180 … 264 V
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 4.3 A (240 VAC; nominal load); ≤ 5.1 A (200 VAC; nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor	≥ 0.98 (240 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 60 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 1.5 W (standby); ≤ 2.4 W (no load); ≤ 40 W (230 VAC; nominal load)
Efficiency (typ.)	96 % (230 VAC; 40 A; 25 °C); 96.3 % (230 VAC; 30 A; 25 °C)
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 900,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> +55 °C)
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP® / Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data	
Width x Height x Depth from upper-edge of DIN-rail	120 x 130 x 130 (mm) / 4.724 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 169 mm
Mounting type	DIN-35 rail
Weight	1900 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 48 VDC output voltage; 2.5 A output current; TopBoost + PowerBoost; Communication capability

2787 Series

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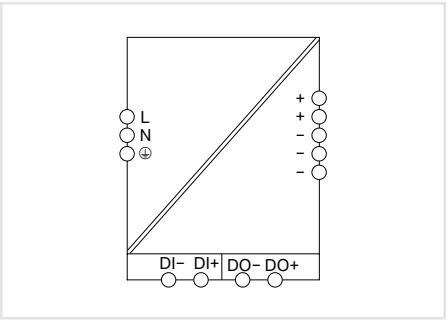


Power supply; Pro 2; 1-phase; 48 VDC output voltage; 2.5 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2154	1

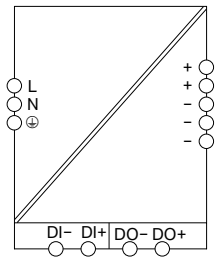
Features

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 1.3 A (240 VAC; nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (48 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 7.5 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/power losses	
Power loss Pl	≤ 0.8 W (standby); ≤ 1.7 W (no load); ≤ 9 W (230 VAC; nominal load)
Efficiency (typ.)	95.3 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 900,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	35 x 130 x 130 (mm) / 1.38 x 5.118 x 5.118 (inches)
Note (dimensions)	Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	650 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2157	1

Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 240 VDC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 5.9 A (240 VAC; nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	48 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	DC 15 A (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)
Efficiency/power losses	
Power loss Pl	≤ 1.3 W (standby); ≤ 2.6 W (no load); ≤ 24 W (230 VAC; nominal load)
Efficiency (typ.)	95.3 %
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	70 x 130 x130 (mm) / 2.756 x 5.118 x 5.118 (inches)
Note (dimensions)	Height without connector; Height with connector: 166 mm
Mounting type	DIN-35 rail
Weight	1450 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Communication module; Modbus TCP; Communication capability
2789 Series

Communication module; Modbus TCP; Communication capability		
	Item No.	PU
	2789-9052	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus TCP/UDP
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Nominal input current at U_N	210 mA (typ.)
Signaling and communication	
Signaling	1 x ERR LED (red); 1 x COM OK LED (green); 1 x LED LNK/ACTx (green); 1 x LED SPEEDx (orange)
Communication	Modbus (TCP, UDP)
ETHERNET protocols	HTTP(S); BootP; DHCP; SNTP
Configuration options	Web-Based Management
Visualization	Web-Visu
Baud rate	100 MBd (ETHERNET: 10/100 Mbit/s)
Transmission medium (communication/fieldbus)	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5
Safety and protection	
Test voltage (fieldbus)	0.775 kVAC; 50 Hz; 1 min
Protection class/type	III / IP20; per EN 60529
Insulation type	Functional insulation
Overvoltage category	III
Pollution degree	2
Connection data	
Connection type	Modbus TCP/UDP
Connector	2 x RJ-45
Cable length (max.)	100 m
Transmission medium	ETHERNET: Twisted Pair S-UTP; 100 Ω; Cat. 5
Physical data/Mechanical data/Material data	
Width x Height x Depth	35 x 80 x 22 (mm) / 1.378 x 3.15 x 0.866 inches
Note (dimensions)	Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +55 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Communication module; Modbus RTU; RJ45; Communication capability
2789 Series

Communication module; Modbus RTU; RJ45; Communication capability		
	Item No.	PU
	2789-9015	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus RTU (RS-485)
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips
- Requires RJ-45 terminating resistor (120 Ω) for long cables (2789-9915)

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Input voltage range	4.5 … 5.5 VDC (SELV)
Input current I_i	≤ 0.04 A
Signaling and communication	
Signaling	1 x LED PWR (green); 1 x LED RxD (yellow); 1 x LED TxD (yellow)
Communication	Modbus RTU via RS-485
Baud rate	4.8 … 115.2 kBd
Number of devices (max.)	247
Transmission medium (communication/fieldbus)	Shielded copper cable
Safety and protection	
Test voltage (input/output)	AC 2 kV; 50 Hz; 1 min
Test voltage (input/output/shield)	1 kVAC; 50 Hz; 1 min
Protection class/type	III / IP20; per EN 60529
Insulation type	Functional insulation
Pollution degree	2
Connection data	
Connector	2 x RJ-45
Transmission medium	Shielded copper cable
Physical data/Mechanical data/Material data	
Width x Height x Depth	35 x 80 x 22 (mm) / 1.378 x 3.15 x 0.866 inches
Note (dimensions)	Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; UL HazLoc

Communication module; IO-Link; Communication capability
2789 Series

1

Communication module; IO-Link; Communication capability		
	Item No.	PU
	2789-9080	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- IO-Link device supports IO-Link specification 1.1
- Suitable for configuring and monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC (SELV; via IO-Link Master)
Input voltage range	18 … 30 VDC (SELV; via IO-Link Master)
Input current I_i	≤ 0.015 A
Signaling and communication	
Signaling	1 x COM OK LED (green); 1 x ERR LED (red)
Communication	IO-Link
IO-Link version	1.1
Baud rate	230.4 kBd (COM 3)
Data width	5 bytes
Data update rate	25 ms
Safety and protection	
Isolation	0.63 kVDC
Protection class/type	III / IP20; per EN 60529
Pollution degree	2
Connection data	
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth	35 x 95 x 22 (mm) / 1.378 x 3.74 x 0.866 (inches)
Note (dimensions)	Height with connector; Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; UL HazLoc

Communication module; EtherNet/IP; Communication capability
2789 Series

Communication module; EtherNet/IP; Communication capability		
	Item No.	PU
	2789-9023	1

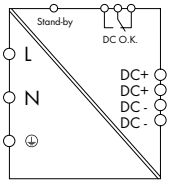
Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Ethernet/IP + MQTT
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Nominal input current at U_N	250 mA (max.)
Signaling and communication	
Signaling	1 x ERR LED (red); 1 x COM OK LED (green); 1 x LED LNK/ACTx (green); 1 x LED SPEEDx (orange)
Communication	EtherNet/IPTM
ETHERNET protocols	HTTP(S); BootP; DHCP; SNTP; MQTT
Configuration options	Web-Based Management
Visualization	Web-Visu
Baud rate	100 MBd (ETHERNET: 10/100 Mbit/s)
Transmission medium (communication/fieldbus)	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5
Safety and protection	
Test voltage (fieldbus)	0.775 kVAC; 50 Hz; 1 min
Protection class/type	III / IP20; per EN 60529
Insulation type	Functional insulation
Overvoltage category	III
Pollution degree	2
Connection data	
Connection type	EtherNet/IP
Connector	2 x RJ-45
Cable length (max.)	100 m
Transmission medium	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5
Physical data/Mechanical data/Material data	
Width x Height x Depth	35 x 80 x 22 (mm) / 1.378 x 3.15 x 0.866 (inches)
Note (dimensions)	Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +55 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 3 A output current; TopBoost + PowerBoost; DC OK contact

787 Series

1



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 3 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-818	1

Feaures:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-5 %/V (< 95 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.51 A (240 VAC; 3 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 70 ms (230 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	3 A (24 VDC)
Nominal output power	72 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	6 ADC (4 s); 4.5 ADC (8 s)
TopBoost	14 ADC (25 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)

Efficiency/power losses	
Power loss P_l	≤ 0.5 W (standby); ≤ 3 W (no load); ≤ 8.8 W (nominal load)
Efficiency (typ.)	87.8 %

Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

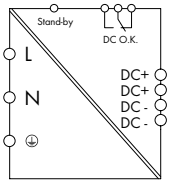
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	40 x 163 x 163 (mm) / 1.575 x 6.417 x 6.417 (inches)
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	960 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-822	1

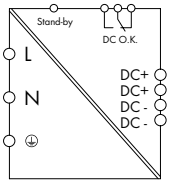
Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.97 A (240 VAC; 5 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 35 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	10 ADC (4 s); 7.5 ADC (8 s)
TopBoost	21 ADC (25 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 0.5 W (standby); ≤ 5 W (no load); ≤ 14.6 W (nominal load)
Efficiency (typ.)	87.8 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data	
Width	57 x 163 x 163 (mm) / 2.244 x 6.417 x 6.417 inches
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	1268 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

787 Series

1



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-832	1

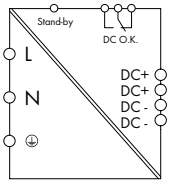
Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 1.2 A (240 VAC; 10 ADC)
Inrush current	≤ 8 A (active power factor correction (PFC))
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 24 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	20 ADC (4 s); 15 ADC (8 s)
TopBoost	60 ADC (25 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 3.8 W (no load); ≤ 24 W (nominal load)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	57 x 163 x 179 (mm) / 2.244 x 6.417 x 7.047 (inches)
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	1472.2 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-834	1

Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 2.3 A (230 VAC; 20 ADC)
Inrush current	≤ 8 A (active power factor correction (PFC))
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	30 ADC (4 s); 25 ADC (8 s)
TopBoost	80 ADC (25 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)

Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 4.8 W (no load); ≤ 43.2 W (nominal load)
Efficiency (typ.)	91 %

Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

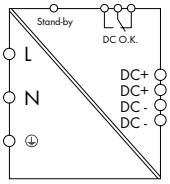
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG

Physical data	
Width	97 x 171 x 187 (mm) / 3.819 x 6.732 x 7.362 (inches)
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	2300 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost + PowerBoost; DC OK contact

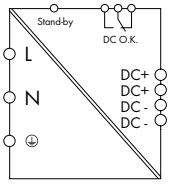
	Item No.	PU
	787-833	1

Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 1.2 A (230 VAC; 5 ADC)
Inrush current	≤ 8 A (active power factor correction (PFC))
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	DC 33 … 52 V (adjustable)
Nominal output current $I_{o\,nom}$	5 A (48 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	10 ADC (4 s); 7.5 ADC (8 s)
TopBoost	30 ADC (25 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 7.4 W (no load); ≤ 21.6 W (nominal load)
Efficiency (typ.)	91 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	57 x 163 x 179 (mm) / 2.244 x 6.417 x 7.047 (inches)
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	1475 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-835	1

Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

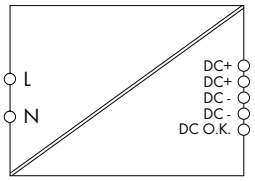
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-1.5 %/V (< 110 VAC)
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 2.3 A (230 VAC; 10 ADC)
Inrush current	≤ 8 A (active power factor correction (PFC))
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	DC 33 … 52 V (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	17.5 ADC (4 s); 15 ADC (8 s)
TopBoost	60 ADC (25 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 4.8 W (no load); ≤ 43.2 W (nominal load)
Efficiency (typ.)	91 %
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	97 x 171 x 187 (mm) / 3.819 x 6.732 x 7.362 (inches)
Note (dimensions)	Height with connector
Mounting type	DIN-35 rail
Weight	2460 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal

	Item No.	PU
	787-1601	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.29 A (240 VAC); ≤ 0.5 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 15 ms (100 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC); 2.1 A (< 40 °C)
Nominal output power	24 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.7 W; ≤ 5.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	5.7 W (100 VAC / 12 VDC; 2 A)
Efficiency (typ.)	82 %

Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

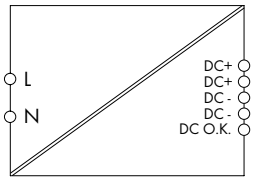
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	22.5 x 90 x 107.5 mm / 0.886 x 3.543 x 4.232 (inches)
Mounting type	DIN-35 rail
Weight	128 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 4 A output current; NEC Class 2; DC OK signal

787 Series



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 4 A output current; NEC Class 2; DC OK signal

	Item No.	PU
	787-1611	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

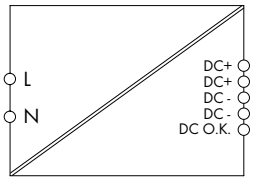
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.46 A (240 VAC); ≤ 0.86 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (12 VDC); 4.2 A (< 40 °C)
Nominal output power	48 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	9.1 W (100 VAC / 12 VDC; 4 A)
Efficiency (typ.)	86 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	45 x 90 x 107.5 (mm) / 1.772 x 3.543 x 4.232 (inches)
Mounting type	DIN-35 rail
Weight	257.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 7 A output current; DC OK signal

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 7 A output current; DC OK signal

	Item No.	PU
	787-1621	1

Features:

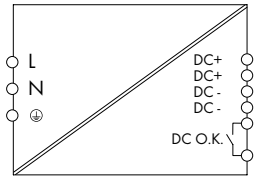
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.9 A (240 VAC); ≤ 1.66 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	7 A (12 VDC); 7.5 A (< 40 °C)
Nominal output power	84 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 16.2 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	19.8 W (100 VAC / 12 VDC; 7 A)
Efficiency (typ.)	86 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 32 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	52 x 90 x 119 (mm) / 2.047 x 3.543 x 4.685 (inches)
Mounting type	DIN-35 rail
Weight	384 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 15 A output current; TopBoost; DC OK contact

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 12 VDC output voltage; 15 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1631	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

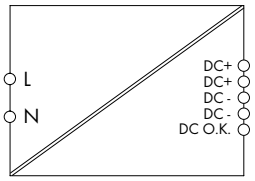
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.93 A (240 VAC); ≤ 2.05 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 28 ms (230 VAC); ≥ 28 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	DC 11.5 … 15 V (adjustable)
Nominal output current $I_{o\,nom}$	15 A (12 VDC)
Nominal output power	180 W
Residual ripple	≤ 35 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 4.4 W; ≤ 21.8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	24.7 W (100 VAC / 12 VDC; 15 A)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 20 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 60 °C, 196… 264 VAC); -2.5 %/K (> 50 °C, 85 … 195 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	55 x 127 x 172 (mm) / 2.165 x 5 x 6.772 (inches)
Mounting type	DIN-35 rail
Weight	930 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 1 A output current; NEC Class 2; DC OK signal

	Item No.	PU
	787-1602	1

Features:

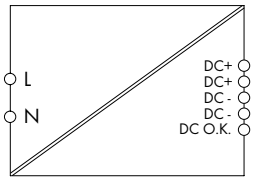
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.28 A (240 VAC); ≤ 0.49 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1 A (24 VDC); 1.2 A (< 40 °C)
Nominal output power	24 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	5 W (100 VAC / 24 VDC; 1 A)
Efficiency (typ.)	86 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 39 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	22.5 x 90 x 107.5 (mm) / 0.886 x 3.543 x 4.232 (inches)
Mounting type	DIN-35 rail
Weight	128 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2 A output current; NEC Class 2; DC OK signal

	Item No.	PU
	787-1606	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

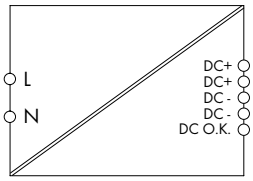
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.48 A (240 VAC); ≤ 0.82 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 2.2 A (< 40 °C)
Nominal output power	48 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	7 W (100 VAC / 24 VDC; 2 A)
Efficiency (typ.)	89 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 37 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	45 x 90 x 107.5 (mm) / 1.772 x 3.543 x 4.232 (inches)
Mounting type	DIN-35 rail
Weight	210 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 3.8 A output current; NEC Class 2; DC OK signal

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 3.8 A output current; NEC Class 2; DC OK signal

Item No.	PU
787-1616/000-1000	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.95 A (240 VAC); ≤ 1.73 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 15 ms (100 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	3.8 A (24 VDC)
Nominal output power	91.2 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	3.8 A (3.2 A at Uo > 25 VDC); LPS per NEC Class 2
Overload behavior	Constant current

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 2.8 W; ≤ 14 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	20 W (100 VAC / 91 W)
Efficiency (typ.)	87 %

Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C

Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at –40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG

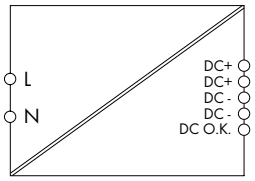
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	52 x 90 x 119 (mm) / 2.047 x 3.543 x 4.685 (inches)
Mounting type	DIN-35 rail
Weight	384 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; UL 1310; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 4 A output current; DC OK signal

	Item No.	PU
	787-1616	1
With coated PCBs	787-1616/000-070	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

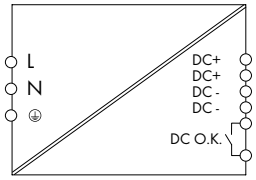
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.98 A (240 VAC); ≤ 1.82 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 4.2 A (< 40 °C)
Nominal output power	96 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 12.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	15 W (100 VAC / 24 VDC; 4 A)
Efficiency (typ.)	89 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	52 x 90 x 119.5 (mm) / 2.047 x 3.543 x 4.705 (inches)
Mounting type	DIN-35 rail
Weight	384 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1622	1

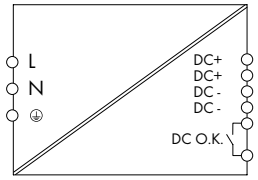
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 97 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.24 A (230 VAC); ≤ 2.3 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 30 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1.2 W; ≤ 14.6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	19.4 W (100 VAC / 24 VDC; 5 A)
Efficiency (typ.)	89 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 41 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 60 °C, AC 196… 264 V); -2,5 %/K (> 50 °C, AC 85 … 195 V)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	42 x 127 x 137.5 (mm) / 1.654 x 5 x 5.394 (inches)
Mounting type	DIN-35 rail
Weight	477.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1632	1
With coated PCBs	787-1632/000-070	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

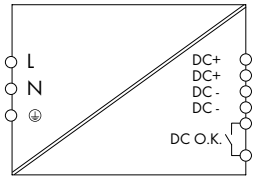
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 100 … 300 VDC
Input voltage derating	-2.5 %/V (< 100 VAC); -1 %/V (< 130 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (230 VAC); ≤ 2.74 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC); ≥ 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 50 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 6.6 W; ≤ 24.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	31.3 W (100 VAC / 24 VDC; 10 A)
Efficiency (typ.)	91 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 60 °C, 196… 264 VAC); -2.5 %/K (> 50 °C, 85 … 195 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	55 x 127 x 172 (mm) / 2.165 x 5 x 6.772 (inches)
Mounting type	DIN-35 rail
Weight	1140 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost; DC OK contact

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1634	1

Features:

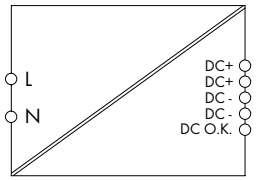
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-1.8 %/V (< 105 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 2.23 A (230 VAC); ≤ 5.56 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC); ≥ 8 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 7.2 W; ≤ 42.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	68.3 W (100 VAC / 24 VDC; 20 A)
Efficiency (typ.)	92 %
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−5 %/K (> 60 °C, 196… 264 VAC); −2.5 %/K (> 50 °C, 85 … 195 VAC)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	95 x 127 x 170 (mm) / 3.74 x 5 x 6.693 (inches)
Mounting type	DIN-35 rail
Weight	1600 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 2 A output current; DC OK signal

	Item No.	PU
	787-1623	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

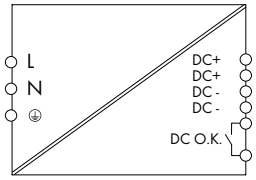
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.97 A (240 VAC); ≤ 1.84 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 15 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	40 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (48 VDC); 2.1 A (< 40 °C)
Nominal output power	96 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 16.2 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	19.8 W (100 VAC / 48 VDC; 2 A)
Efficiency (typ.)	86 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 60 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	52 x 90 x 119 (mm) / 2.047 x 3.543 x 4.685 (inches)
Mounting type	DIN-35 rail
Weight	590 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 60335-1; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact

787 Series

1

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 5 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1633	1

Features:

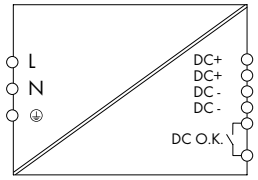
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (230 VAC); ≤ 2.74 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 21 ms (230 VAC); ≥ 21 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	40 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (48 VDC)
Nominal output power	240 W
Residual ripple	≤ 30 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 7 W; ≤ 40.8 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	26.5 W (100 VAC / 48 VDC; 5 A)
Efficiency (typ.)	92 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 60 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 60 °C, 196… 264 VAC); -2.5 %/K (> 50 °C, 85 … 195 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	55 x 127 x 172 (mm) / 2.165 x 5 x 6.772 (inches)
Mounting type	DIN-35 rail
Weight	930 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact

787 Series

Similar to pictured device



Switched-mode power supply; Classic; 1-phase; 48 VDC output voltage; 10 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1635	1
With coated PCBs	787-1635/000-070	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- DNV approval

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	-2.5 %/V (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 2.23 A (230 VAC); ≤ 5.56 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC); ≥ 20 ms (100 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	40 … 56 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 80 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 11.7 W; ≤ 36.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	64.9 W (100 VAC / 48 VDC; 10 A)
Efficiency (typ.)	93 %
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 60 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 60 °C, 196… 264 VAC); -2.5 %/K (> 50 °C, 85 … 195 VAC)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	95 x 127 x 170 (mm) / 3.74 x 5 x 6.693 (inches)
Mounting type	DIN-35 rail
Weight	1600 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 2-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact

787 Series

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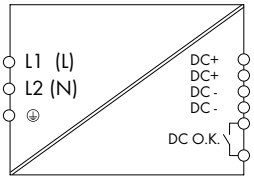


Switched-mode power supply; Classic; 2-phase; 24 VDC output voltage; 5 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1628	1

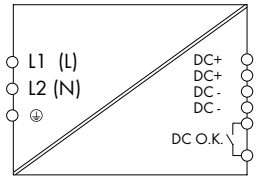
Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Input	
Phases	1 / 2
Nominal input voltage $U_{i\,nom}$	(1 / 2) x 200 … 500 VAC
Input voltage range	(1 / 2) x 180 … 550 VAC; 254 … 780 VDC
Input voltage derating	-0.5 %/V (< 200 VAC); -0.4 %/V (< 280 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.25 A (200 VAC); ≤ 0.67 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.52
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 126 ms (500 VAC); ≥ 15 ms (200 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 30 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.94 W; ≤ 16.36 W (230 VAC; nominal load); ≤ 14.55 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	18.2 W (200 VAC / 24 VDC; 5 A)
Efficiency (typ.)	89 %
Circuit protection	
Internal fuse	T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	42 x 127 x 143.5 (mm) / 1.654 x 5 x 5.65 (inches)
Mounting type	DIN-35 rail
Weight	600 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 2-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

787 Series



Switched-mode power supply; Classic; 2-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1638	1

Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Input	
Phases	1 / 2
Nominal input voltage $U_{i\,nom}$	(1 / 2) x 200 … 500 VAC
Input voltage range	(1 / 2) x 180 … 550 VAC; 254 … 780 VDC
Input voltage derating	-0.5 %/V (< 200 VAC); -0.4 %/V (< 280 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.975 A (230 VAC); ≤ 1.36 A (230 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 78 ms (400 VAC); ≥ 20 ms (200 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 30 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1.3 W; ≤ 27.8 W (230 VAC; nominal load); ≤ 20.3 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	27.8 W (230 VAC / 24 VDC; 10 A)
Efficiency (typ.)	89 % (230 VAC); 92.5 % (400 VAC)
Circuit protection	
Internal fuse	T 6.3 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	55 x 127 x 146.5 (mm) / 2.165 x 5 x 5.768 (inches)
Mounting type	DIN-35 rail
Weight	830 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 1.25 A output current; DC OK LED
2687 Series

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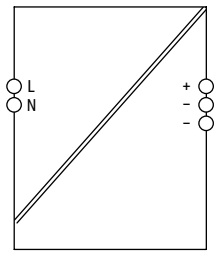


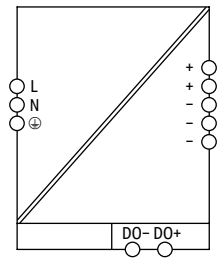
Power supply; Eco 2; 1-phase; 24 VDC output voltage; 1.25 A output current; DC OK LED

	Item No.	PU
	2687-2142	1

Features:
- Optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1223, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 0.3 A (230 VAC; nominal load); ≤ 0.6 A (100 VAC; nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 120 ms (230 VAC); ≥ 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 29 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Residual ripple	≤ 30 mV (peak-to-peak, at 230 VAC)
Overload behavior	Constant power up to 125 %; Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Efficiency/power losses	
Power loss P_l	≤ 0.2 W (no load); ≤ 4.3 W (nominal load)
Efficiency (typ.)	88 %
Circuit protection	
Internal fuse	T 1 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC)	3,510 V
Protection class/type	II / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,000,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See type label/manual
Operating altitude (max.)	5000 m
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 4 mm² / 0.2 … 4 mm² / 24 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	25 x 100 x 100 (mm) / 0.984 x 3.937 x 3.937 (inches)
Mounting type	DIN-35 rail
Weight	160 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current; DC OK contact
2687 Series



Power supply; Eco 2; 1-phase; 24 VDC output voltage; 5 A output current; DC OK contact

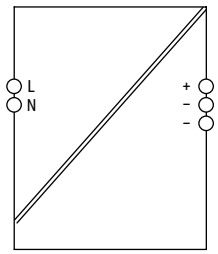
	Item No.	PU
	2687-2144	1

Features:
- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 0.8 A (230 VAC; nominal load); ≤ 1.5 A (100 VAC; nominal load)
Inrush current	≤ 20 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 75 mV (peak-to-peak)
Overload behavior	Constant current up to 125 %; Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	Optical status indication (overload); Optical status indication (DC OK); Digital signal output (DO)
Efficiency/power losses	
Power loss P_l	≤ 3 W; ≤ 12 W (nominal load)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	T 3.15 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC)	3,510 V
Isolation voltage (pri.-PE, AC)	2,200 V
Isolation voltage (sec.-PE)	0.5 kVDC
Protection class / Protection type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/No
MTBF	> 1,000,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See type label
Operating altitude (max.)	5000 m
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 4 mm² / 0.2 … 4 mm² / 24 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	38 x 130 x 130 (mm) / 1.496 x 5.118 x 5.118 (inches)
Mounting type	DIN-35 rail
Weight	620 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Eco 2; 1-phase; 24 VDC output voltage; 10 A output current; DC OK contact
2687 Series

1



Power supply; Eco 2; 1-phase; 24 VDC output voltage; 10 A output current; DC OK contact

	Item No.	PU
	2687-2146	1

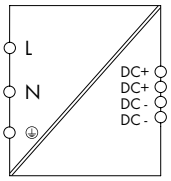
Features:
- Signal output, optical status indication
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Connection technology with push-in termination and tool-free lever operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010/UL 61010
- Marker slot (2789-1233, not included) for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 1.1 A (230 VAC; nominal load); ≤ 2.7 A (100 VAC; nominal load)
Inrush current	≤ 25 A (after 1 ms)
Power factor correction (PFC)	active
Mains failure hold-up time	≥ 25 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 75 mV (peak-to-peak)
Overload behavior	Constant current up to 105 … 110 %; Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	Optical status indication (overload); Optical status indication (DC OK); Digital signal output (DO)
Efficiency/power losses	
Power loss P_l	≤ 3 W (230 VAC; no load); ≤ 13 W (230 VAC; nominal load)
Efficiency (typ.)	93 %
Circuit protection	
Internal fuse	T 6.3 A / 250 VAC
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC)	3,510 V
Isolation voltage (pri.-PE, AC)	2,200 V
Isolation voltage (sec.-PE)	0.5 kVDC
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K; > 45 °C
Operating altitude (max.)	5000 m
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 4 mm² / 0.2 … 4 mm² / 24 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	50 x 130 x 130 (mm) / 1.97 x 5.118 x 5.118 (inches)
Mounting type	DIN-35 rail
Weight	800 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC OK LED

787 Series

Similar to pictured device



Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC OK LED

Item No.	PU
787-1701	1

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

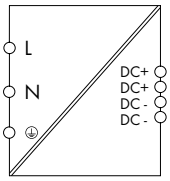
Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.7 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC; 110 … 240 VAC); 1.6 A (12 VDC; 100 … 240 VAC)
Nominal output power	24 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 6 W (230 VAC; 12 VDC; 2 A)
Efficiency (typ.)	80 % (230 VAC; 2 ADC)
Circuit protection	
Internal fuse	F 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	30 x 90 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	250 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 4 A output current; DC OK LED

787 Series

1

Similar to pictured device



Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 4 A output current; DC OK LED

	Item No.	PU
	787-1711	1

Features:

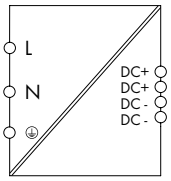
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.8 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (12 VDC; 110 … 240 VAC); 3.2 A (12 VDC; 100 … 240 VAC)
Nominal output power	48 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 9.6 W (230 VAC; 12 VDC; 4 A)
Efficiency (typ.)	80 % (230 VAC; 4 ADC)
Circuit protection	
Internal fuse	F 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	40 x 90 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	250 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 8 A output current; DC OK LED

787 Series

Similar to pictured device



Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 8 A output current; DC OK LED

Item No.	PU
787-1721	1

Features:

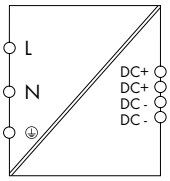
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	8 A (12 VDC; 110 … 240 VAC); 6.4 A (12 VDC; 100 … 240 VAC)
Nominal output power	96 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 20 W (230 VAC; 12 VDC; 8 A)
Efficiency (typ.)	80 % (230 VAC; 8 ADC)
Circuit protection	
Internal fuse	F 3.15 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-3 %/K (> 40 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	60 x 130 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	520 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 61558-2-6; EN 62368-1

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC OK LED

787 Series

1



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC OK LED

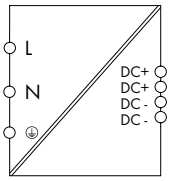
	Item No.	PU
	787-1702	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.3 A (230 VAC); ≤ 0.6 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC; 110 … 240 VAC); 1 A (24 VDC; 100 … 240 VAC)
Nominal output power	30 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 6 W (230 VAC; 24 VDC; 1.25 A)
Efficiency (typ.)	87 % (230 VAC; 1.25 ADC)
Circuit protection	
Internal fuse	F 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	30 x 90 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	257 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED

787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED

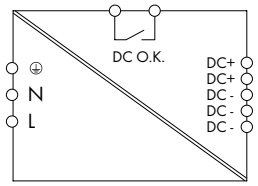
	Item No.	PU
	787-1712	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A (230 VAC); ≤ 1.2 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC; 110 … 240 VAC); 2 A (24 VDC; 100 … 240 VAC)
Nominal output power	60 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 12 W (230 VAC; 24 VDC; 2.5 A)
Efficiency (typ.)	88 % (230 VAC; 2.5 ADC)
Circuit protection	
Internal fuse	F 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	40 x 90 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	300 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact

787 Series



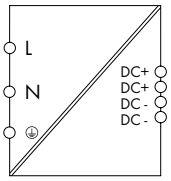
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact

	Item No.	PU
	787-736	1

Features:
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 130 … 373 VDC
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 6 A (230 VAC); ≤ 12 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 107 W (230 VAC; nominal load)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	T 20 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 13 A, 16 A, 20 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 250,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	170 x 136 x 150
Mounting type	DIN-35 rail
Weight	3500 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3; EN 61000-6-2; EN 61000-6-3; UL 60950-1; UL 508

Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED
787 Series



Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED

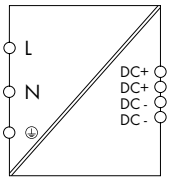
Item No.	PU
787-712	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.7 A (230 VAC); ≤ 1.2 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.5 (230 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 8.3 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
Efficiency (typ.)	86 % (230 VAC)
Circuit protection	
Internal fuse	F 2.5 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	480,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +70 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-3.3 %/K (> 50 °C; 230 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	50 x 92 x 136
Mounting type	DIN-35 rail
Weight	470 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC OK LED
787 Series

1



Power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC OK LED

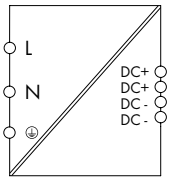
	Item No.	PU
	787-722	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1 A (230 VAC); ≤ 2 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 19.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	23.5 W (110 VAC / 24 VDC; 5.5 A)
Efficiency (typ.)	86 % (230 VAC)
Circuit protection	
Internal fuse	F 3.15 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	480,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-5.33 %/K (> 45 °C; 230 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	75 x 92 x 136
Mounting type	DIN-35 rail
Weight	850 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC OK LED

787 Series



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC OK LED

Item No.	PU
787-1722	1

Features:

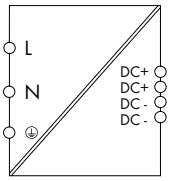
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1 A (230 VAC); ≤ 2 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC; 110 … 240 VAC); 4 A (24 VDC; 100 … 240 VAC)
Nominal output power	120 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 19 W
Efficiency (typ.)	88 % (230 VAC; 5 ADC)
Circuit protection	
Internal fuse	F 2.5 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	60 x 130 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	550 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC OK LED

787 Series

1



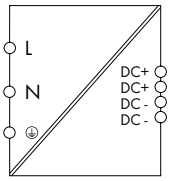
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC OK LED

	Item No.	PU
	787-1732	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 2 A (230 VAC); ≤ 4 A (115 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 10 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC; 110 … 240 VAC); 8 A (24 VDC; 100 … 240 VAC)
Nominal output power	240 W
Residual ripple	≤ 200 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 38 W (230 VAC; 24 VDC; 10 A)
Efficiency (typ.)	91 % (230 VAC; 10 ADC)
Circuit protection	
Internal fuse	F 3.15 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I /IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	70 x 165 x 99
Mounting type	DIN-35 rail; Screw mount
Weight	840 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC OK LED
787 Series



Power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC OK LED

Item No.	PU
787-732	1

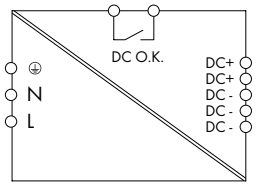
Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 90 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.5 A (230 VAC); ≤ 3 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 37.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	53 W (110 VAC / 24 VDC; 11 A)
Efficiency (typ.)	86 % (230 VAC)
Circuit protection	
Internal fuse	F 5 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	480,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +70 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.33 %/K (> 40 °C; 230 VAC)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 4 mm² / 0.08 … 4 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	110 x 92 x 136
Mounting type	DIN-35 rail
Weight	1200 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact

787 Series

1



Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact

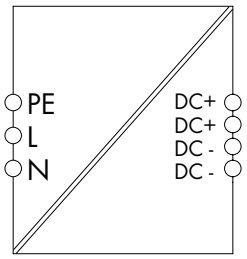
	Item No.	PU
	787-734	1

Features:
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 A (230 VAC); ≤ 6.3 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 65 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	107 W (110 VAC / 24 VDC; 23 A)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 250,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	See instruction manual
Connection data	
Connection technology	CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	115 x 136 x 144
Mounting type	DIN-35 rail
Weight	2120 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3; EN 61000-6-2; EN 61000-6-3; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2.5 A output current; DC OK LED

787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2.5 A output current; DC OK LED

	Item No.	PU
	787-1201	1

Features:

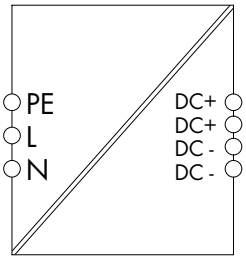
- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Input voltage derating	-1.5 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A (100 VAC; 2.5 ADC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 1000 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A
Nominal output power	30 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.5 W
Power loss (max.) $P_{l\,(max.)}$	4.5 W (100 VAC / 12 VDC; 2.5 A)
Efficiency (typ.)	88 % (230 VAC; nominal load); 87.5 % (110 VAC; nominal load)
Circuit protection	
Internal fuse	T 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B
Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 20 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes, for devices of the same type/Yes, for 2 devices of the same type
MTBF	> 3,500,000 h (at 25 C; per IEC 61709); > 800,000 h (at 40 C; per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	-0.8 %/K (> 45 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Cable length (max.)	30 m
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	54 x 90 x 56
Depth from upper-edge of DIN-rail	52.5 mm
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	318.5 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; UL 508

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 5 A output current; DC OK LED

787 Series

1



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 5 A output current; DC OK LED

Item No.	PU
787-1211	1

Features:
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	1 x 85 … 264 VAC; 125 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 600 ms (230 VAC); ≥ 12 ms (110 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.22 … 1.7 x $I_{o\,nom}$); Hiccup in the event of a short circuit or permanent overload

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.6 W
Power loss (max.) $P_{l\,(max.)}$	9 W (100 VAC / 12 VDC; 2.5 A)
Efficiency (typ.)	88.5 % (230 VAC; nominal load); 87.5 % (110 VAC; nominal load)

Circuit protection	
Internal fuse	T 3.15 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B

Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Reverse voltage protection	Yes
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 20 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes, for devices of the same type/Yes, for 2 devices of the same type
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	−3 %/K (> +45 °C and Ue = 90 VAC); −2.3 %/K (> +50 °C and Ue = 230 VAC)

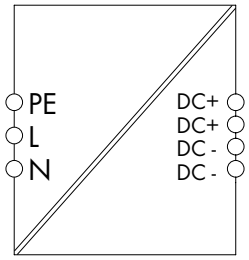
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Cable length (max.)	30 m

Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	72 x 90 x 56
Depth from upper-edge of DIN-rail (mm)	52.5
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail
Weight	63 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 8 A output current; DC OK LED

787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 8 A output current; DC OK LED

	Item No.	PU
	787-1221	1

Features:

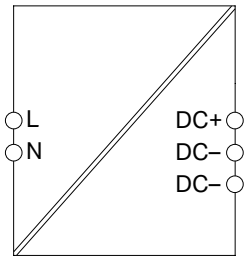
- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC; 140 … 340 VDC
Input voltage range	1 x 90 … 264 VAC; 125 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.6 A (100 VAC; 8 ADC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10 … 14 VDC (adjustable)
Nominal output current $I_{o\,nom}$	8 A
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.7 W
Power loss (max.) $P_{l\,(max.)}$	11.8 W (100 VAC / 12 VDC; 8 A)
Efficiency (typ.)	91.5 % (230 VAC; nominal load); 90 % (110 VAC; nominal load)
Circuit protection	
Internal fuse	T 3.15 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B
Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 20 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes, for 2 devices of the same type
MTBF	> 1,300,000 h (at 25 C; per IEC 61709); > 250,000 h (at 40 C; per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Cable length (max.)	30 m
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	108 x 90 x 56
Depth from upper-edge of DIN-rail (mm)	52.5
Note (dimensions)	DIN-35 rail; Screw mount (back)
Mounting type	
Weight	422.8 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 0.5 A output current; DC OK LED

787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 0.5 A output current; DC OK LED

	Item No.	PU
	787-1200	1

Features:
- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Series operation
- Electrically isolated output voltage (SELV) per EN 62368/ UL 62368 and EN 60335-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 90 … 264 VAC
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz
Input current I_i	≤ 0.27 A (100 VAC; 0.5 ADC)
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	None
Mains failure hold-up time	≥ 100 ms (230 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	12 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Shutdown and automatic restart in the event of a short circuit

Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.2 W
Power loss (max.) $P_{l\,(max.)}$	2.5 W (100 VAC / 24 VDC; 0.5 A)
Efficiency (typ.)	83 % (230 VAC; nominal load); 82 % (110 VAC; nominal load)

Circuit protection	
Internal fuse	T 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Reverse voltage protection	Yes
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/Yes, for 2 devices of the same type
MTBF	> 700,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	-2.6 %/K (> 55 °C)

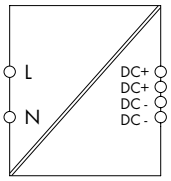
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Cable length (max.)	30 m

Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	18 x 90 x 55
Depth from upper-edge of DIN-rail (mm)	52,5
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	63 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368; UL 62368; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK LED

787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK LED

	Item No.	PU
	787-1202	1

Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 125 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 70 ms

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.3 A
Nominal output power	31.2W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.43 W
Power loss (max.) $P_{l\,(max.)}$	5.5 W (100 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	87 % (230 VAC); 82 % (110 VAC)

Circuit protection	
Internal fuse	T 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 700,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)

Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Cable length (max.)	30 m

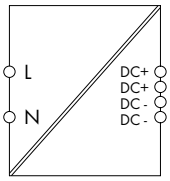
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	54 x 90 x 56
Depth from upper-edge of DIN-rail (mm)	52.5
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	239.3 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED

787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC OK LED

	Item No.	PU
	787-1212	1

Features:
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 125 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 1.5 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 60 ms

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A; 2 A (< 110 VAC)
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload

Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.6 W
Power loss (max.) $P_{l\,(max.)}$	9 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	89 % (230 VAC); 87 % (110 VAC)

Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)

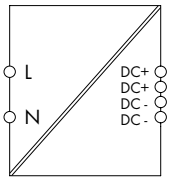
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	72 x 90 x 56
Depth from upper-edge of DIN-rail (mm)	52.5 mm
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	288 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4.2 A output current; DC OK LED

787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4.2 A output current; DC OK LED

Item No.	PU
787-1216	1

Features:

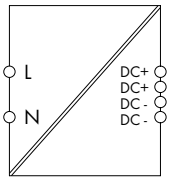
- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Screw mounts for alternative installation in distribution boxes or devices
- Pluggable picoMAX® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 125 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 2.5 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4.2 A; 3.3 A (< 110 VAC)
Nominal output power	100 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.7 W
Power loss (max.) $P_{l\,(max.)}$	15 W (100 VAC / 24 VDC; 4.2 A)
Efficiency (typ.)	90 % (230 VAC); 87 % (110 VAC)
Circuit protection	
Internal fuse	T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	108 x 90 x 56
Depth from upper-edge of DIN-rail	52.5 mm
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail; Screw mount (back/side)
Weight	456.9 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC OK LED

787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 6 A output current; DC OK LED

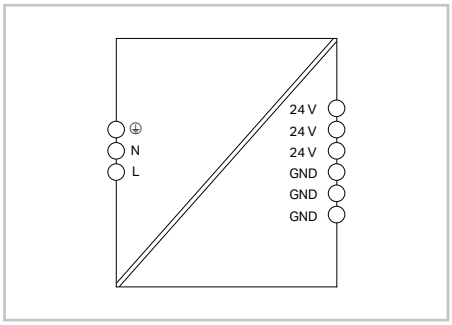
Item No.	PU
787-1226	1

Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Screw mounts for alternative installation in distribution boxes or devices
- Pluggable picoMAX® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 120 VAC; 200 … 240 VAC
Input voltage range	1 x 90 … 132 VAC; 180 … 264 VAC; 250 … 375 VDC
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3.8 A
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 30 ms
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 27 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6 A; 4.8 A (< 110 VAC)
Nominal output power	150 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.4 W
Power loss (max.) Pl (max.)	16.5 W (100 VAC / 24 VDC; 6 A)
Efficiency (typ.)	90 % (230 VAC); 89 % (110 VAC)
Circuit protection	
Internal fuse	T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	I / IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.2 … 2.5 mm² / 0.2 … 2.5 mm² / 24 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	144 x 90 x 56
Depth from upper-edge of DIN-rail	52.5
Note (dimensions)	Depth: 48 mm (without cover)
Mounting type	DIN-35 rail; Screw mount (back)
Weight	510 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

Power supply; Compact; 1-phase; 18 VDC output voltage; 1.25 A output current; DC OK LED
787 Series



Power supply; Compact; 1-phase; 18 VDC output voltage; 1.25 A output current; DC OK LED

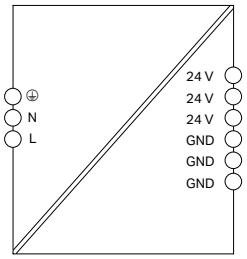
	Item No.	PU
	787-2857	1

Features:
- This Switched-Mode Power Supply is specially designed to supply the 753-647 DALI Multi-Master module.
- Multipleparallel modules can be supplied.
- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE-CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN/UL 61010-1 or EU/UL 61010-2-201

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 100 … 264 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 0.4 A (100 VAC); ≤ 0.2 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	18 VDC (SELV)
Nominal output current $I_{o\,nom}$	1.25 A (18 VDC)
Nominal output power	22 W
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Hiccup
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.5 W (230 VAC; no load); ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %
Circuit protection	
Internal fuse	T 1.25 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC)	3,920 V
Isolation voltage (pri.-PE, AC)	2,470 V
Isolation voltage (sec.-PE)	0.5 VDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a. s.l.); II (> 2000 m a. s.l.)
Pollution degree	2
Overvoltage protection; secondary	≤ 32 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 2,500,000 h (per EN/IEC 61709 at +40 °C)
Ambient temperature (operation at U_N)	-25 … +70 °C (Nominal mounting position; −20 … +55 °C (in any mounting position))
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−1.7 %/K (> 55 °C)
Operating altitude (max.)	5000 m
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.25 … 2.5 mm² / 0.25 … 2.5 mm² / 20 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 16 AWG
Cable length (max.)	30 m
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	36 x 90 x 62
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	120 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 61010-1; EN 61010-2-201; cULus 61010-1; cULus 61010-2-201; DNV

Power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current
787 Series

1



Power supply; Compact; 1-phase; 24 VDC output voltage; 1.25 A output current

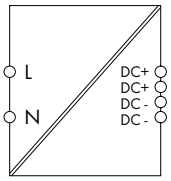
Item No.	PU
787-2850	1

Features:
- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 110 … 240 VAC
Input voltage range	1 x 100 … 264 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 0.55 A (110 VAC); ≤ 0.33 A (240 VAC)
Inrush current	≤ 24 A (NTC)
Mains failure hold-up time	≥ 95 ms (230 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 24 VDC (fixed setting)
Nominal output current $I_{o\,nom}$	1.25 A (24 VDC)
Nominal output power	30 W
Residual ripple	≤ 60 mV (peak-to-peak)
Overload behavior	Hiccup
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 0.5 W; ≤ 4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	5 W (110 VAC / 24 VDC; 1.35 A)
Efficiency (typ.)	88 %
Circuit protection	
Internal fuse	T 1.25 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC)	3,920V
Isolation voltage (pri.-PE, AC)	2,470V
Isolation voltage (sec.-PE)	0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III
Pollution degree	2
Overvoltage protection; secondary	≤ 32 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 2,500,000 h (per EN/IEC 61709 at +40 °C)
Ambient temperature (operation at U_N)	-25 … +70 °C (Nominal mounting position; -20 … +55 °C (in any mounting position))
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-1.7 %/K (> 55 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.25 … 2.5 mm² / 0.25 … 2.5 mm² / 20 … 12 AWG
Output (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 16 AWG
Cable length (max.)	30 m
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	36 x 90 x 62
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	120 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61204-3; EN 61010-1; EN 61010-2-201; cULus 61010-1; cULus 61010-2-201; DNV

Switched-mode power supply; Compact; 1-phase; 5 VDC output voltage; 5.5 A output current; DC OK signal

787 Series



Switched-mode power supply; Compact; 1-phase; 5 VDC output voltage; 5.5 A output current; DC OK signal

	Item No.	PU
	787-1020	1

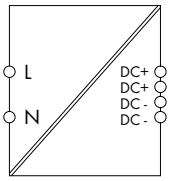
Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.29 A (230 VAC); ≤ 0.56 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	5 VDC (SELV)
Output voltage range	4.5 … 8.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5.5 A (5 VDC); 3.5 A (in any mounting position)
Nominal output power	27.5 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.4 W; ≤ 9.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	9.9 W (264 VAC / 5 VDC; 5.5 A)
Efficiency (typ.)	75 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 16 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	72 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	240 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2 A output current
787 Series

1



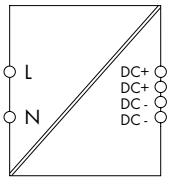
Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2 A output current

	Item No.	PU
	787-1001	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	I_o ≤ 1.5 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.4 A (230 VAC); ≤ 0.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10.5 … 18 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2 A (12 VDC); 1.4 A (12 VDC; in any mounting position); 0.75 A (18 VDC)
Nominal output power	24 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.6 W; ≤ 6 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	6 W (100 VAC / 12 VDC; 2 A)
Efficiency (typ.)	80 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 30 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	54 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55 mm
Mounting type	DIN-35 rail
Weight	180 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 4 A output current
787 Series



Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 4 A output current

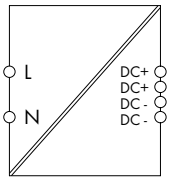
	Item No.	PU
	787-1011	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	I_o ≤ 3.5 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.9 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10.5 … 15.5 VDC (adjustable)
Nominal output current Io_{nom}	4 A (12 VDC); 2.4 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.2 W; ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	9 W (100 VAC / 12 VDC; 4 A)
Efficiency (typ.)	85 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 30 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	72 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	255 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 6.5 A output current
787 Series

1



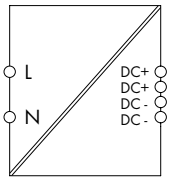
Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 6.5 A output current

Item No.	PU
787-1021	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	I_o ≤ 6 A (< 100 VAC); I_o ≤ 5.5 A (< 90 VAC)
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.9 A (230 VAC); ≤ 1.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC); ≥ 15 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	10.5 … 15.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6.5 A (12 VDC); 3.9 A (12 VDC; in any mounting position)
Nominal output power	78 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (Uo)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 15 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	15 W (100 VAC / 12 VDC; 6.5 A)
Efficiency (typ.)	87 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 30 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at –40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	90 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	300 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 18 VDC output voltage; 2.5 A output current
787 Series



Switched-mode power supply; Compact; 1-phase; 18 VDC output voltage; 2.5 A output current

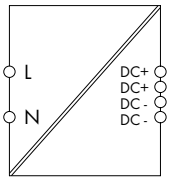
Item No.	PU
787-1017	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	I_o ≤ 2 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.9 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	18 VDC (SELV)
Output voltage range	15 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.4 A (18 VDC); 2 A (24 VDC; in any mounting position)
Nominal output power	43 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.6 W; ≤ 8.1 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	8.2 W (100 VAC / 18 VDC; 2.4 A)
Efficiency (typ.)	84 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	72 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	264 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current
787 Series

1



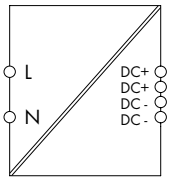
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current

Item No.	PU
787-1002	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	I_o ≤ 1 A (< 100 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.5 A (230 VAC); ≤ 0.7 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	1.3 A (24 VDC); 0.9 A (in any mounting position)
Nominal output power	31.2 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (Uo)
Efficiency/power losses	
Power loss P_l	≤ 2.6 W; ≤ 7 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	7.3 W (100 VAC / 24 VDC; 1.3 A)
Efficiency (typ.)	82 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at –40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	–3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	54 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	180 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current
787 Series



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current

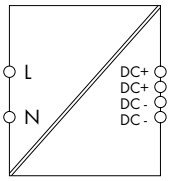
Item No.	PU
787-1012	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	$I_o \leq 2$ A (< 100 VAC); $I_o \leq 1.8$ A (< 90 VAC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.6 A (230 VAC); ≤ 1.4 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	60 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.2 W; ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	10.5 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	88 %
Circuit protection	
Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher
Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	54 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	255 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current
787 Series

1



Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 4 A output current

	Item No.	PU
	787-1022	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 120 … 300 VDC
Input voltage derating	Upon request
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 0.9 A (230 VAC); ≤ 1.6 A (110 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 100 ms (230 VAC); ≥ 15 ms (110 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 26.4 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 2.4 A (in any mounting position)
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current

Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses	
Power loss P_l	≤ 0.8 W; ≤ 13.1 W (230 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	14.8 W (264 VAC / 24 VDC; 4 A)
Efficiency (typ.)	88 %

Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

Safety and protection/Environmental requirements	
Protection class/type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +60 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +80 °C
Ambient temperature UL (operation at U_N)	-25 … +55 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	−3 %/K (> 45 °C)

Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	90 x 89 x 59
Depth from upper-edge of DIN-rail (mm)	55
Mounting type	DIN-35 rail
Weight	310 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

WAGO Power Supplies; 3-Phase

WAGO Power Supplies; 3-Phase

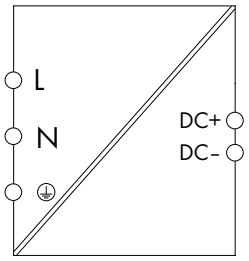
WAGO Power Supplies; 3-Phase
Selection Guide

2

Nominal voltage (output)	Nominal current (output) [ADC]	Approvals							DC OK signal/ contact	RS-232 interface	TopBoost [1]	PowerBoost	Efficiency typ. [%]	Ambient temperature [°C] [4]	Item Number	Page
		EN 60335	cURus 60950	cULus 508	cULus 61010	DNV	ANSI/ISA 12.12.1	ATEX/IEC Ex								
24 VDC	5,00				■				■		■	■	92,5	–25 … +70	**2787-2344**	84
	6,25		■	■					■				87,0	–25 … +70	**787-738**	105
	10,0				■						■	■	93,0	–25 … +70	**2787-2346**	85
	10,0				■						■	■	95,0	–25 … +70	**2787-2357**	88
	10,0		■	■					■		■		91,7	–25 … +70	**787-840**	94
	10,0		■	■					■	■	■	■	91,7	–25 … +70	**787-850**	97
	10,0		■	■		■			■		■		90,0	–25 … +70	**787-1640**	102
	10,0		■	■					■				89,0	–25 … +70	**787-740**	106
	20,0				■				■		■	■	94,8	–25 … +70	**2787-2347**	86
	20,0				■						■	■	96.0	–25 … +70	**2787-2358**	89
	20,0		■	■					■		■	■	92,9	–25 … +70	**787-842**	95
	20,0		■	■					■	■	■	■	92,9	–25 … +70	**787-852**	98
	20,0		■	■		■			■		■		92,0	–25 … +70	**787-1642**	103
	20,0		■	■					■				90,0	–25 … +70	**787-742**	107
	20,0		■	■					■				90,5	–20 … +70	**787-2742**	108
	40,0				■				■		■	■	95,0	–20 … +70	**2787-2348**	87
	40,0		■	■					■		■	■	93,6	–25 … +55	**787-844**	96
	40,0		■	■					■	■	■	■	93,6	–25 … +55	**787-854**	99
	40,0		■	■		■			■		■		92,0	–25 … +70	**787-1644**	104
	40,0		■	■									91,5	–20 … +70	**787-2744**	109
48 VDC	10,0		■	■					■		■	■	93,0	–25 … +70	**787-845**	100
	20,0		■	■					■		■	■	94,4	–25 … +70	**787-847**	101

■ yes

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Communication capability
2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 5 A output current; TopBoost + PowerBoost; Communication capability

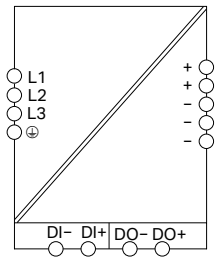
	Item No.	PU
	2787-2344	1
DNV	**2787-2344/000-030**	1
DNV + Protective coating	**2787-2344/000-070**	1

Features:
- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 0.4 A (400 VAC; 24 VDC / 5 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	5 A (24 VDC)
Nominal output power	120 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Efficiency (typ.)	92.5 % (230 VAC; 5 A; 25 °C)
Circuit protection	
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,400,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	40 x 130 x 130; Height with connector: 166
Mounting type	DIN-35 rail
Weight	650 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

Serie 2787



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2346	1
DNV	**2787-2346/000-030**	1
DNV + Protective coating	**2787-2346/000-070**	1

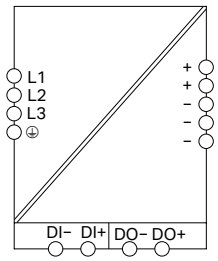
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 0.6 A (400 VAC; 24 VDC / 10 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	15 ADC (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 3 W (standby); ≤ 3 W (no load); ≤ 18 W (400 VAC; nominal load)
Efficiency (typ.)	93 % (400 VAC; 10 A; 25 °C)
Circuit protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 1,000,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	50 x 130 x 130; Height with connector: 166
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2347	1
DNV	**2787-2347/000-030**	1
DNV + Protective coating	**2787-2347/000-070**	1

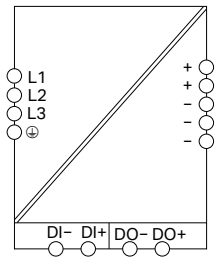
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 0.8 A (400 VAC; 24 VDC / 20 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	30 ADC (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 3.6 W (standby); ≤ 4.4 W (no load); ≤ 21 W (400 VAC; nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)
Circuit protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	70 x 130 x 130; Height with connector: 169
Mounting type	DIN-35 rail
Weight	1400 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2348	1
DNV	**2787-2348/000-030**	1
DNV + Protective coating	**2787-2348/000-070**	1

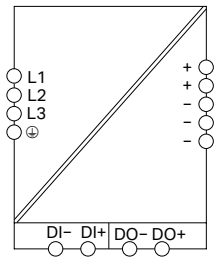
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Input voltage derating	See instruction leaflet
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 1.5 A (400 VAC; 24 VDC / 40 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	24 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	60 ADC (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Efficiency (typ.)	96.1 % (400 VAC; 40 A; 25 °C)
Circuit protection	
Internal fuse	3 x T 2.5 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	120 x 130 x 130; Height with connector: 169
Mounting type	DIN-35 rail
Weight	2000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2357	1

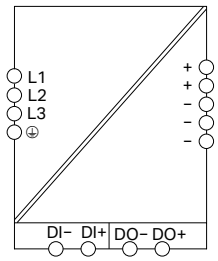
Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 0.8 A (400 VAC; 48 VDC / 10 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	15 ADC (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Power loss P_l	≤ 3.6 W (standby); ≤ 4.4 W (no load); ≤ 21 W (nominal load)
Efficiency (typ.)	95 %
Circuit protection	
Internal fuse	3 x T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510 V / 2,200 V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 900,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at –40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	70 x 130 x 130; Height with connector: 169
Mounting type	DIN-35 rail
Weight	1400 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability

2787 Series



Power supply; Pro 2; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; Communication capability

	Item No.	PU
	2787-2358	1

Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior
- Configurable digital signal input and output, optical status indication, function keys
- Communication interface for configuration and monitoring
- Optional connection to IO-Link, EtherNet/IP, Modbus TCP or Modbus RTU
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Pluggable connection technology
- Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Phases	3
Nominal input voltage $U_{i\,nom}$	3 x 400 … 500 VAC (connection without neutral conductor)
Input voltage range	3 x 340 … 550 VAC
Nominal mains frequency range	50 … 60 Hz
Input current I_i	≤ 3 x 1.6 A (400 VAC; 48 VDC / 20 A)
Inrush current	≤ 15 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	DC 48 … 56 V (adjustable)
Nominal output current $I_{o\,nom}$	20 A (48 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
PowerBoost	30 ADC (5 s)
TopBoost	Up to 600 %
Signaling and communication	
Signaling	Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923); Ethernet/IP (Communication Module 2789-9023); IO-Link (Communication Module 2789-9080); Modbus RTU (Communication Module 2789-9015); Modbus TCP (Communication Module 2789-9052)
Efficiency/power losses	
Efficiency (typ.)	96 %
Circuit protection	
Internal fuse	2 x T 5 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)
Safety and protection/Environmental requirements	
Isolation voltage (pri.-sec., AC/pri.-PE, AC/sec.-PE)	3,510V / 2,200V / 0.5 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	See instruction leaflet
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®/Push-in CAGE CLAMP®
Input/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	120 x 130 x 130; Height with connector: 169
Mounting type	DIN-35 rail
Weight	2000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Communication module; Modbus TCP; Communication capability
2789 Series

Communication module; Modbus TCP; Communication capability		
	Item No.	PU
	2789-9052	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus TCP/UDP
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Nominal input current at U_N	210 mA (typ.)
Signaling and communication	
Signaling	1 x ERR LED (red); 1 x COM OK LED (green); 1 x LED LNK/ACTx (green); 1 x LED SPEEDx (orange)
Communication	Modbus (TCP, UDP)
ETHERNET protocols	HTTP(S); BootP; DHCP; SNTP
Configuration options	Web-Based Management
Visualization	Web-Visu
Baud rate	100 MBd (ETHERNET: 10/100 Mbit/s)
Safety and protection/Environmental requirements	
Test voltage (fieldbus)	0.775 kVAC; 50 Hz; 1 min
Protection class/type	III / IP20; per EN 60529
Insulation type	Functional insulation
Overvoltage category	III
Pollution degree	2
Ambient temperature (operation at U_N)	-40 … +55 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Connection data	
Connection Technology	Modbus TCP/UDP; 2 x RJ-45
Cable length (max.)	100 m
Transmission medium	ETHERNET: Twisted Pair S-UTP; 100 Ω; Cat. 5
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	35 x 80 x 22; Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Communication module; Modbus RTU; RJ45; Communication capability
2789 Series

Communication module; Modbus RTU; RJ45; Communication capability		
	Item No.	PU
	2789-9015	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Modbus RTU (RS-485)
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips
- Requires RJ-45 terminating resistor (120 Ω) for long cables (2789-9915)

Input	
Nominal input voltage $U_{i\,nom}$	5 VDC (SELV)
Input voltage range	DC 4.5 … 5.5 V(SELV)
Input current I_i	≤ 0.04 A
Signaling and communication	
Signaling	1 x LED PWR (green); 1 x LED RxD (yellow); 1 x LED TxD (yellow)
Communication	Modbus RTU via RS-485
Baud rate	4.8 … 115.2 kBd
Number of devices (max.)	247
Safety and protection/Environmental requirements	
Test voltage (input/output)	AC 2 kV; 50 Hz; 1 min
Test voltage (input/output/shield)	1 kVAC; 50 Hz; 1 min
Protection class	III
Insulation type	Functional insulation
Protection type	IP20; per EN 60529
Pollution degree	2
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Connection data	
Connector	2 x RJ-45
Transmission medium	Shielded copper cable
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	35 x 80 x 22; Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; UL HazLoc

Communication module; IO-Link; Communication capability
2789 Series

Communication module; IO-Link; Communication capability		
	Item No.	PU
	2789-9080	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- IO-Link device supports IO-Link specification 1.1
- Suitable for configuring and monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Pluggable connection technology
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC (SELV; via IO-Link Master)
Input voltage range	18 … 30 VDC (SELV; via IO-Link Master)
Input current I_i	≤ 0.015 A
Signaling and communication	
Signaling	1 x COM OK LED (green); 1 x ERR LED (red)
Communication	IO-Link
IO-Link version	1.1
Baud rate	230.4 kBd (COM 3)
Data width	5 bytes
Data update rate	25ms
Safety and protection/Environmental requirements	
Isolation	0.63 kVDC
Protection class/type	III / IP20; per EN 60529
Pollution degree	2
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Operating altitude (max.)	5000 m
Connection data	
Connection technology	CAGE CLAMP®
Solid/Fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	20 m (IO-Link)
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	35 x 95 x 22; Height with connector; Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	35 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; UL HazLoc

Communication module; EtherNet/IP; Communication capability
2789 Series

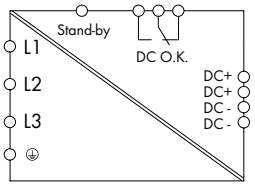
Communication module; EtherNet/IP; Communication capability		
	Item No.	PU
	2789-9023	1

Features:
- WAGO's communication module snaps onto a Pro 2 Power Supply's communication interface.
- Ethernet/IP + MQTT
- Suitable for monitoring the subordinate power supply
- Function blocks for standard control systems available upon request
- Integrated ETHERNET switch for convenient wiring
- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Input	
Nominal input voltage U_{inom}	5 VDC (SELV)
Nominal input current at U_N	250 mA (max.)
Signaling and communication	
Signaling	1 x ERR LED (red); 1 x COM OK LED (green); 1 x LED LNK/ACTx (green); 1 x LED SPEEDx (orange)
Communication	
ETHERNET protocols	EtherNet/IPTM; HTTP(S); BootP; DHCP; SNTP; MQTT
Configuration options	Web-Based Management
Visualization	Web-Visu
Baud rate	100 MBd (ETHERNET: 10/100 Mbit/s)
Safety and protection/Environmental requirements	
Test voltage (fieldbus)	0.775 kVAC; 50 Hz; 1 min
Protection class/type	III / IP20; per EN 60529
Insulation type	Functional insulation
Overvoltage category	III
Pollution degree	2
Ambient temperature (operation at U_N)	-40 … +55 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	5000 m
Connection data	
Connection Technology	EtherNet/IP; 2 x RJ-45
Cable length (max.)	100 m
Transmission medium	ETHERNET: Twisted pair S-UTP; 100 Ω; Cat. 5
Physical data/Mechanical data/Material data	
Width x Height x Depth (mm)	35 x 80 x 22; Depth in mounted state
Mounting type	Snaps onto a Pro 2 Power Supply's communication interface (X4)
Weight	45 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-840	1

Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 22 ms (3 x 400 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	20 ADC (4 s); 15 ADC (16 s)
TopBoost	70 ADC (50 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)

Efficiency/power losses	
Power loss P_l	≤ 7.8 W; ≤ 19.9 W (nominal load)
Efficiency (typ.)	91.7 %

Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 1.6 A; Setting range: 1.6 … 2.5 A

Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

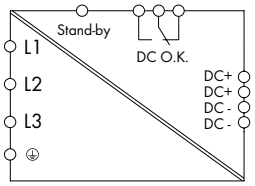
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	57 x 163 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1000 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-842	1

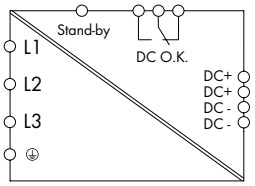
Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 13 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	40 ADC (4 s); 30 ADC (16 s)
TopBoost	80 ADC (50 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 8.3 W; ≤ 34.1 W (nominal load)
Efficiency (typ.)	92.9 %
Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	77 x 171 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1300 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; DC OK contact

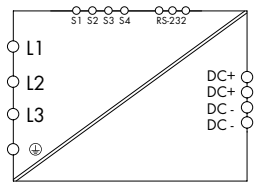
	Item No.	PU
	787-844	1
With lateral DIN-rail support	787-844/000-002	

Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC; 40 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 13 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	60 ADC (4 s); 50 ADC (16 s)
TopBoost	100 ADC (50 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)
Efficiency/power losses	
Power loss P_l	≤ 7 W; ≤ 61.5 W (nominal load)
Efficiency (typ.)	93.6 %
Circuit protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +55 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®/ Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	128 x 171 x 205; Height with connector
Mounting type	DIN-35 rail
Weight	2500 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

Item No.	PU
787-850	1

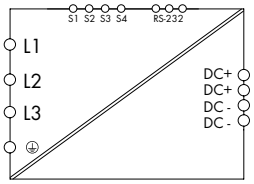
Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- Four signal outputs

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 22 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Adjustable (constant current/fuse mode)
PowerBoost	20 ADC (4 s); 15 ADC (16 s)
TopBoost	70 ADC (50 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green)1 x Warning LED (yellow)1 x Error LED (red)LCD1 x RS-232 interface
Operation status indicator	Green LED (DC OK); Yellow LED (warning); Red LED (error)
Communication	RS-232 serial interface
Efficiency/power losses	
Power loss Pl	≤ 7.8 W; ≤ 19.9 W (nominal load)
Efficiency (typ.)	91.7 %
Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 1.6 A; Setting range: 1.6 … 2.5 A
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	57 x 163 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

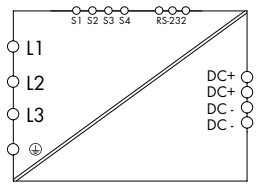
Item No.	PU
787-852	1

Features:
- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- Four signal outputs

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 13 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Adjustable (constant current/fuse mode)
PowerBoost	40 ADC (4 s); 30 ADC (16 s)
TopBoost	80 ADC (50 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Warning LED (yellow);1 x Error LED (red); LCD; 1 x RS-232 interface
Operation status indicator	Green LED (DC OK); Yellow LED (warning); Red LED (error)
Communication	RS-232 serial interface
Efficiency/power losses	
Power loss P_l	≤ 8.3 W; ≤ 34.1 W (nominal load)
Efficiency (typ.)	92.9 %
Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®/ Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	77 x 171 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1300 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

787 Series



Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; LineMonitor; DC OK signal

Item No.	PU
787-854	1

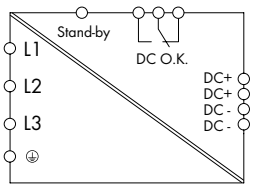
Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- Four signal outputs

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive (adjustable via software/display)
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 … 28.8 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Adjustable (constant current/fuse mode)
PowerBoost	60 ADC (4 s); 50 ADC (16 s)
TopBoost	100 ADC (50 ms)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Warning LED (yellow);1 x Error LED (red); LCD; 1 x RS-232 interface
Operation status indicator	Green LED (DC OK); Yellow LED (warning); Red LED (error)
Communication	RS-232 serial interface
Efficiency/power losses	
Power loss P_l	≤ 7 W; ≤ 61.5 W (nominal load)
Efficiency (typ.)	93.6 %
Circuit protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 3.2 A; Setting range: 2.5 … 4 A
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +55 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®/ Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	128 x 171 x 205; Height with connector
Mounting type	DIN-35 rail
Weight	2300 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 3-phase; 48 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-845	1

Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 1.1 A (340 VAC; 10 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 12 ms (3 x 400 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	39 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (48 VDC)
Nominal output power	480 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	15 ADC (4 s); 12.5 ADC (16 s)
TopBoost	55 ADC (50 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)

Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 8.2 W (no load); ≤ 38 W (nominal load)
Efficiency (typ.)	93 %

Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 2.5 A; Setting range: 2.5 … 4 A

Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

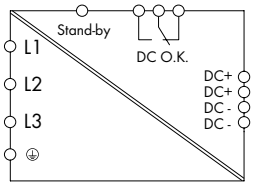
Connection data	
Connection technology	CAGE CLAMP®/ Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	77 x 171 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1883.3 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Pro; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

787 Series



Switched-mode power supply; Pro; 3-phase; 48 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact

	Item No.	PU
	787-847	1

Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 340 … 550 VAC; 480 … 780 VDC
Nominal mains frequency range	50 … 60 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (340 VAC; 20 ADC)
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 15 ms (3 x 400 VAC)

Output	
Nominal output voltage $U_{o\,nom}$	48 VDC (SELV)
Output voltage range	39 … 53 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (48 VDC)
Nominal output power	960 W
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	30 ADC (4 s); 25 ADC (16 s)
TopBoost	80 ADC (25 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Error LED (red); 1 x Stand-by input; 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK); Red LED (error)

Efficiency/power losses	
Power loss P_l	≤ 0.8 W (standby); ≤ 5.2 W (no load); ≤ 59.2 W (nominal load)
Efficiency (typ.)	94.4 %

Circuit protection	
Internal fuse	3 x T 3.2 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C; Alternative: motor circuit breaker; Setpoint: 3.2 A; Setting range: 2.5 … 4 A

Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-5 %/K (> 45 °C)

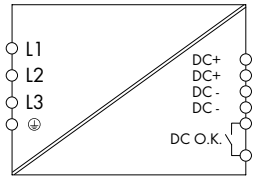
Connection data	
Connection technology	CAGE CLAMP®/ Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	128 x 171 x 205; Height with connector
Mounting type	DIN-35 rail
Weight	3270 g

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508

Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

787 Series



Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1640	1

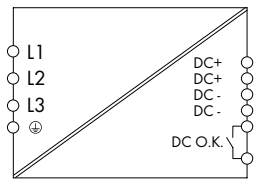
Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.73 A (400 VAC); ≤ 3 x 0.66 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms (500 VAC); ≥ 21 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 50 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2.1 W; ≤ 27.9 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	28.3 W (500 VAC / 24 VDC; 10 A)
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	No
Backup fusing (required)	Alternative: motor circuit breaker; An external DC fuse is required for the DC input voltage.
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 41 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Connection data	
Connection type	Input/Output/Signaling
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	55 x 127 x 171
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost; DC OK contact

787 Series



Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1642	1

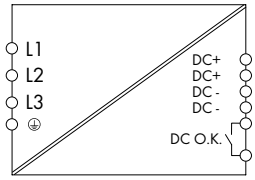
Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.21 A (400 VAC); ≤ 3 x 1.03 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 25 ms (500 VAC); ≥ 15 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 15 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 5.8 W; ≤ 42.8 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	47.6 W (500 VAC / 24 VDC; 20 A)
Efficiency (typ.)	92 %
Circuit protection	
Internal fuse	No
Backup fusing (required)	Alternative: motor circuit breaker; An external DC fuse is required for the DC input voltage.
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/ Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0,5 … 10 mm² / 0,5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	80 x 127 x 180
Mounting type	DIN-35 rail
Weight	1623 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost; DC OK contact

787 Series



Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost; DC OK contact

	Item No.	PU
	787-1644	1

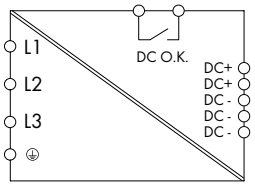
Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 320 … 575 VAC; 450 … 800 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2.15 A (400 VAC); ≤ 3 x 1.82 A (500 VAC)
Inrush current	≤ 30 A (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 25 ms (500 VAC); ≥ 15 ms (400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 30 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 4.2 W; ≤ 83.9 W (400 VAC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	83.9 W (500 VAC / 24 VDC; 40 A)
Efficiency (typ.)	92 %
Circuit protection	
Internal fuse	No
Backup fusing (required)	Alternative: motor circuit breaker; An external DC fuse is required for the DC input voltage.
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®; Push-in CAGE CLAMP®
Input/ Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Output (solid/fine-stranded/AWG)	0,5 … 10 mm² / 0,5 … 10 mm² / 20 … 8 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	126 x 127 x 198
Mounting type	DIN-35 rail
Weight	2800 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; UL 60950-1; UL 508; DNV

Switched-mode power supply; ECO; 3-phase; 24 VDC output voltage; 6.25 A output current; DC OK contact

787 Series



Switched-mode power supply; ECO; 3-phase; 24 VDC output voltage; 6.25 A output current; DC OK contact

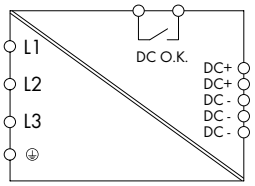
	Item No.	PU
	787-738	1

Features:
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VDC; 500 … 650 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 0.6 A (400 VAC; 24 VDC / 6.25 A)
Inrush current	≤ 25 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	6.25 A (24 VDC)
Nominal output power	150 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (U_o); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 18.5 W
Power loss (max.) $P_{l\,(max.)}$	20 W
Efficiency (typ.)	87 %
Circuit protection	
Internal fuse	3 x T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 250,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2.5 %/K (> 50 °C; 400 VAC)
Connection data	
Connection technology	CAGE CLAMP® / Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² /0.2 … 1.5 mm² / 24 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	50 x 130 x 92
Mounting type	DIN-35 rail
Weight	844 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 609

Switched-mode power supply; ECO; 3-phase; 24 VDC output voltage; 10 A output current; DC OK contact

787 Series



Switched-mode power supply; Eco; 3-phase; 24 VDC output voltage; 10 A output current; DC OK contact

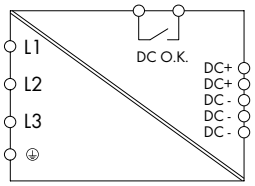
	Item No.	PU
	787-740	1

Features:
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VDC; 500 … 650 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.2 A (400 VAC; 24 VDC / 10 A)
Inrush current	≤ 25 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	10 A (24 VDC)
Nominal output power	240 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (U_o); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 32.5 W
Power loss (max.) $P_{l\,(max.)}$	36 W
Efficiency (typ.)	89 %
Circuit protection	
Internal fuse	3 x T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 250,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-1.25 %/K (> 50 °C; 400 VAC)
Connection data	
Connection technology	CAGE CLAMP® / Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² /0.2 … 1.5 mm² / 24 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	65 x 130 x 130
Mounting type	DIN-35 rail
Weight	1265 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 508

Switched-mode power supply; ECO; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

787 Series



Switched-mode power supply; ECO; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

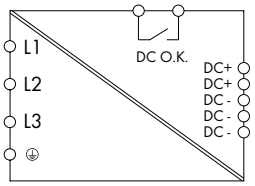
Item No.	PU
787-742	1

Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 500 VAC
Input voltage range	(2 / 3) x 360 … 575 VDC; 500 … 650 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2 A (400 VAC; 24 VDC / 20 A)
Inrush current	≤ 30 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 17 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (U_o); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 50 W
Power loss (max.) $P_{l\,(max.)}$	55 W
Efficiency (typ.)	90 %
Circuit protection	
Internal fuse	3 x T 5 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker ≥ 6 A; Tripping characteristic: B or C; Alternative: motor circuit breaker
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 250,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2 %/K (> 50 °C; 400 VAC)
Connection data	
Connection technology	CAGE CLAMP® / Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² /0.2 … 1.5 mm² / 24 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	110 x 130 x 151
Mounting type	DIN-35 rail
Weight	1930 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61204-3 (Class A); UL 60950-1; UL 508

Power supply; ECO; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact
787 Series



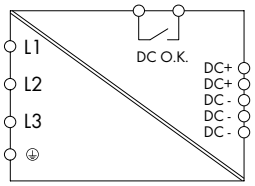
Power supply; ECO; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

Item No.	PU
787-2742	1

Features:
- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated terminal blocks with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204-1

Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 480 VDC
Input voltage range	(2 / 3) x 325 … 575 VAC; 60 … 700 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 1.2 A (400 VAC)
Inrush current	≤ 30 A (400 VAC)
Power factor	≥ 0.7 (400 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	20 A (24 VDC)
Nominal output power	480 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red); 1 x DC OK signal output (PhotoMOS as make contact; can be loaded with max. 31.2 V / 100 mA)
Operation status indicator	Green LED (U_o); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 2.15 W (400 VAC; no load); ≤ 42.5 W (400 VAC; nominal load)
Efficiency (typ.)	92 %
Circuit protection	
Internal fuse	3 x T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker ≥ 10 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/2 devices (max.)
MTBF	> 1,800,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Resistance to shock and vibration	Shock: 15 g (per EN 60068-2-27); Vibration: 1 g (per EN 60068-2-6)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	80 x 130 x 170
Mounting type	DIN-35 rail
Weight	1710 g
Standards and specifications	
Conformity marking	1; EAC
Standards/specifications	EN 61204-3; EN 62368-1; cURus 60950-1; cURus 62368-1; cULus 508; CSA C22.2

Power supply; ECO; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact
787 Series



Power supply; ECO; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact

	Item No.	PU
	787-2744	1

Features:
- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204-1

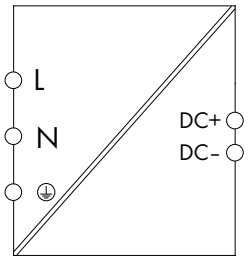
Input	
Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x 400 … 480 VDC
Input voltage range	(2 / 3) x 325 … 575 VAC; 560 … 700 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 3 x 2.5 A (400 VAC)
Inrush current	≤ 30 A (400 VAC)
Power factor	≥ 0.7 (400 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (3 x 400 VAC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 28 VDC (adjustable)
Nominal output current $I_{o\,nom}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 150 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red); 1 x DC OK signal output (PhotoMOS as make contact; can be loaded with max. 31.2 V / 100 mA)
Operation status indicator	Green LED (U_o); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 6.2 W (400 VAC; nominal load); ≤ 64.3 W (400 VAC; nominal load)
Efficiency (typ.)	92.3 %
Circuit protection	
Internal fuse	3 x T 6.3 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x circuit breaker ≥ 10 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/type	I / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/2 devices (max.)
MTBF	> 1,300,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Resistance to shock and vibration	Shock: 15 g (per EN 60068-2-27); Vibration: 1 g (per EN 60068-2-6)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input (solid/fine-stranded/AWG)	0.5 … 6 mm² / 0.5 … 6 mm² / 20 … 10 AWG
Output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Signaling (solid/fine-stranded/AWG)	0.2 … 1.5 mm² / 0.2 … 1.5 mm² / 24 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	140 x 130 x 170
Mounting type	DIN-35 rail
Weight	2630 g
Standards and specifications	
Conformity marking	CE; EAC
Standards/specifications	EN 61204-3; EN 62368-1; cURus 60950-1; cURus 62368-1; cULus 508; CSA C22.2

Special WAGO Power Supplies

Special WAGO Power Supplies

3

Switched-mode power supply; 1-phase; 24 VDC output voltage; 4 A output current; PowerBoost
787 Series



Switched-mode power supply; 1-phase;
24 VDC output voltage; 4 A output current; PowerBoost

Item No.	PU
787-6716	1

Features:
- Switched-mode power supply with PowerBoost
- Low-profile, compact design
- Extremely robust, fully encapsulated housing (IP67)
- Active power factor correction
- High efficiency up to 92.3%
- Ambient temperature up to 85°C
- Suitable for both parallel and series operation

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC/VDC
Input voltage range	90 … 265 VAC/VDC
Nominal mains frequency range	47 … 63.6 Hz; 0 Hz
Input current I_i	≤ 0.5 A (250 VAC); ≤ 1.1 A (100 VAC)
Inrush current	≤ 9 A
Power factor	≥ 0.98
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 45 ms
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	4 A
Nominal output power	96 W
Residual ripple	≤ 100 mV (peak-to-peak); ≤ 20 mV (rms)
Overload behavior	Constant current
PowerBoost	6 ADC (5 s; without voltage drop)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK); Red LED (overload)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 7.9 W (nominal load)
Efficiency (typ.)	92.3 % (230 VAC)
Circuit protection	
Internal fuse	T 6.3 A
Backup fusing (recommended)	Circuit breaker: 4 … 20 A; Characteristic: C; T 20 A in building installations
Safety and protection/Environmental requirements	
Protection class/Protection type	I / IP67
Overvoltage protection; secondary	≤ 30 VDC (per IEC 61131)
Short-circuit-protected	Yes
Parallel/series operation	3 devices (max.)/2 devices (max.)
MTBF	> 960,000 h
Ambient temperature (operation at U_N)	-40 … +85 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	4 … 100 %
Derating	-3.84 W/K (> 60 °C)
Connection data	
Connection type 1	Input
Connection technology	7/8"; 3-pole plug
Connection type 2	Output
Connection technology 2	7/8"; 5-pole socket
Physical data/Mechanical data/Material data	
Width x Height x Depth	111 x 141 x 54 mm / 4.37 x 5.55 x 2.123 inches
Mounting type	Screw mount
Weight	1100 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204; UL 508

Accessories for IP67 Power Supply Cable
787 Series

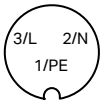
Operating data	
Operating voltage	600 VAC/VDC
Operating current	9 A
Safety and protection/Environmental requirements	
Rated surge voltage	4 kV
Protection type	IP67
Ambient temperature (operation at U_N)	-25 … +80 °C
Connection data	
Sheathed cable diameter	7.4 mm

Features:
- 7/8" screw connection: Industry-proven connection technology for a large selection of different conductors
- High protection class for safe field applications
- Vibration- and shock-resistant via integrated locking mechanism
- PUR coating

Similar to pictured device

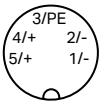
Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 3-pole; Socket, straight		
Length	Item No.	PU
3 m	787-6716/9310-030	1
5 m	787-6716/9310-050	1
10 m	787-6716/9310-100	1

Supply cable, pre-assembled, 7/8 inch; 7/8 inch; 5-pole; Plug, straight		
Length	Item No.	PU
1,5 m	787-6716/9510-015	1
3 m	787-6716/9510-030	1
5 m	787-6716/9510-050	1



7/8" socket

1 green
2 black
3 white



7/8" plug

1 white
2 red
3 green
4 orange
5 black

Accessories for IP67 Power Pluggable Connector
787 Series

Operating data	
Operating voltage	600 VAC/VDC
Operating current	9 A
Safety and protection/Environmental requirements	
Rated surge voltage	4 kV
Protection type	IP67
Ambient temperature (operation at U_N)	-25 … +80 °C
Connection data	
Sheathed cable diameter	7.4 mm

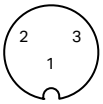
3

Features:
- 7/8" screw connection: Industry-proven connection technology for a large selection of different conductors
- High protection class for safe field applications
- Vibration- and shock-resistant via integrated locking mechanism
- PUR coating

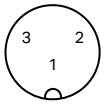
Similar to pictured device

Pluggable connector, 7/8 inch; 3-pole; Socket, angled	
Item No.	PU
787-6716/9400-000	1

Pluggable connector, 7/8 inch; 3-pole; Plug, straight	
Item No.	PU
787-6716/9100-000	1



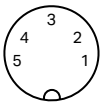
7/8" socket



7/8" plug

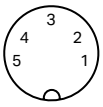
Accessories for IP67 Power Pluggable Connector
787 Series

Pluggable connector, 7/8 inch; 5-pole; Plug, straight		
	Item No.	PU
	787-6716/9500-000	1



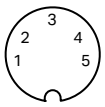
7/8" plug

Pluggable connector, 7/8 inch; 5-pole; Plug, angled		
	Item No.	PU
	787-6716/9600-000	1



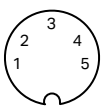
7/8" plug

Pluggable connector, 7/8 inch; 5-pole; Socket, straight		
	Item No.	PU
	787-6716/9700-000	1



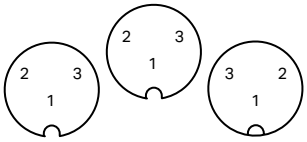
7/8" socket

Pluggable connector, 7/8 inch; 5-pole; Socket, angled		
	Item No.	PU
	787-6716/9800-000	1



7/8" socket

Pluggable connector, 7/8 inch; 3-pole		
	Item No.	PU
	787-6716/9000-1000	1

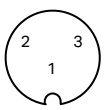


7/8" socket

7/8" socket

7/8" plug

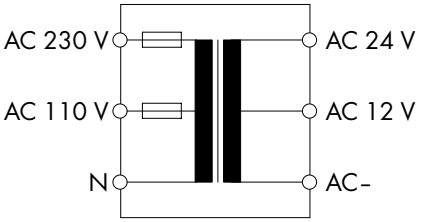
Pluggable connector, 7/8 inch; 3-pole; Socket, straight		
	Item No.	PU
	787-6716/9300-000	1



7/8" socket

Transformer power supply; Input voltage: 230 VAC; Output voltage: 12 … 24 VAC; Output power: 40 VA

787 Series



Transformer power supply; Input voltage: 230 VAC; Output voltage: 12 … 24 VAC; Output power: 40 VA

	Item No.	PU
	787-974	1

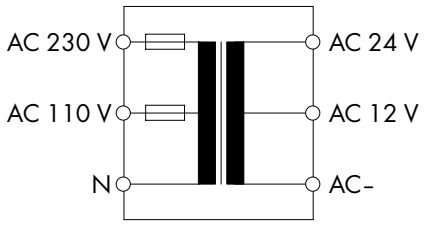
Features:

- Maintenance-free, DIN-rail-mount safety transformer for 12/24 VAC
- Center tap-off modules provide variable input/output voltage.
- Enables brief performance peaks
- Peak output power of 45 VA for 1 min/h

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 115 VAC; 230 VAC
Input voltage range	1 x 0 … 230 VAC
Nominal mains frequency range	50 … 60 Hz
Output	
Nominal output voltage $U_{o\,nom}$	12 / 24 VAC
Nominal output current $I_{o\,nom}$	3.3 A (115 VAC); 1.67 A (230 VAC)
Overload behavior	Safety fuse in the primary circuit
Efficiency/power losses	
Power loss P_l	≤ 0.6 W
Circuit protection	
Internal fuse	T 1.25 A / 250 VAC; T 0.63 A / 250 VAC
Safety and protection/Environmental requirements	
Isolation voltage (AC)	4.2 kVAC
Protection class/Protection type	II / IP20; per EN 60529
Overvoltage category	III
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/Yes (with identical power supply)
Ambient temperature (operation at U_N)	-25 … +55 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 90%
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	126 x 90 x 54 mm / 4.961 x 3.543 x 2.126 inches
Mounting type	DIN-35 rail
Weight	955.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 5085; EN 61558-2-6

Transformer power supply; Input voltage: 230 VAC; Output voltage: 12 … 24 VAC; Output power: 63 VA

787 Series



Transformer power supply; Input voltage: 230 VAC; Output voltage: 12 … 24 VAC; Output power: 63 VA

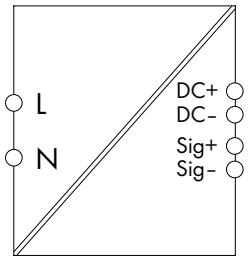
	Item No.	PU
	787-976	1

Features:

- Maintenance-free, DIN-rail-mount safety transformer for 12/24 VAC
- Center tap-off modules provide variable input/output voltage.
- Enables brief performance peaks
- Peak output power of 70 VA for 1 min/h

Input	
Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 115 VAC; 230 VAC
Input voltage range	1 x 0 … 230 VAC
Nominal mains frequency range	50 … 60 Hz
Output	
Nominal output voltage $U_{o\,nom}$	12 / 24 VAC
Nominal output current $I_{o\,nom}$	5.2 A (115 VAC); 2.6 A (230 VAC)
Overload behavior	Safety fuse in the primary circuit
Efficiency/power losses	
Power loss P_l	≤ 0.8 W
Circuit protection	
Internal fuse	T 2 A / 250 VAC; T 1.6 A / 250 VAC
Safety and protection/Environmental requirements	
Isolation voltage (AC)	4.2 kVAC
Protection class/Protection type	II / IP20; per EN 60529
Overvoltage category	III
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/Yes (with identical power supply)
Ambient temperature (operation at U_N)	-25 … +55 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	≤ 90%
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	144 x 90 x 54 mm mm / 5.669 x 3.543 x 2.126 inches
Mounting type	DIN-35 rail
Weight	1200 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 5085; EN 61558-2-6

Switched-mode power supply; 1-phase; Output voltage: 22 VDC; 1 A output current
787 Series



Switched-mode power supply; 1-phase; Output voltage: 22 VDC; 1 A output current		
	Item No.	PU
	787-914	1

Features:
- Power supply for small loads that operate at a variable input voltage
- The output voltage can be adjusted linearly by hand or via an analog voltage signal (0 … 10 V) in the range from 12 to 22 V, e.g., for automatically controlling fan speed in control cabinets.
- Flat design allows installation in confined spaces.
- Variable mounting options for space-saving installation, e.g., in recesses

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	90 … 264 VAC; 130 … 373 VDC
Nominal mains frequency range	47 … 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Inrush current	≤ 18 A
Power factor	≥ 0.45
Power factor correction (PFC)	Not required
Mains failure hold-up time	≥ 15 ms
Output	
Nominal output voltage $U_{o\,nom}$	22 VDC
Output voltage range	12 … 22 VDC (adjustable by hand or via signal input)
Nominal output current $I_{o\,nom}$	0.8 A (< 110 VAC); 1 A (110 … 240 VAC)
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 … 1.7 x $I_{o\,nom}$); Hiccup in the event of a short circuit or permanent overload
Signaling and communication	
Signaling	1 x Status indication LED (green); 1 x Signal input (10 VDC)
Operation status indicator	Green LED (U_o)
Input signal (voltage)	0 … 10 V
Input impedance	10 kΩ
Efficiency/power losses	
Power loss P_l	≤ 0.8 W
Power loss (max.) Pl (max.)	4 W
Efficiency (typ.)	84 % (230 VAC); 80 % (110 VAC)
Circuit protection	
Internal fuse	1 A / 250 VAC
Backup fusing (recommended)	Circuit breaker: B6, C4 or higher
Safety and protection/Environmental requirements	
Protection class/Protection type	II / IP20; per EN 60529
Reverse voltage protection	Yes (Signal input)
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Yes (signal input) ≤ 31 VDC (output; in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (at 25 °C per IEC 61709)
Ambient temperature (operation at U_N)	-20 … +60 °C
Ambient temperature (storage)	-25 … +75 °C
Relative humidity	20 … 90 % (no condensation permissible)
Derating	−2.47 %/K (> 45 °C)
Connection data	
Connection technology	CAGE CLAMP®
Solid/Fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth	45 x 138 x 35 mm mm / 1.77 x 5.433 x 1.38 inches
Note (dimensions)	Height: 156 mm (with fastening clips)
Mounting type	DIN-35 rail; Screw mount
Weight	160 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 60950; EN 61204-3; EN 62368-1; EN 61000-6-3

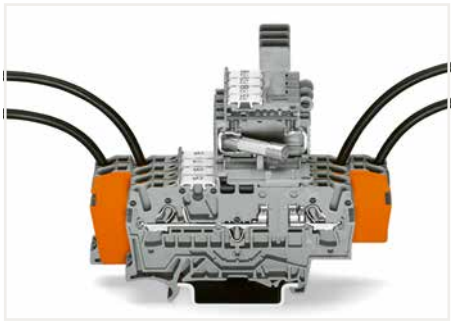
WAGO Protective Devices and Electronics

WAGO Protective Devices and Electronics

4

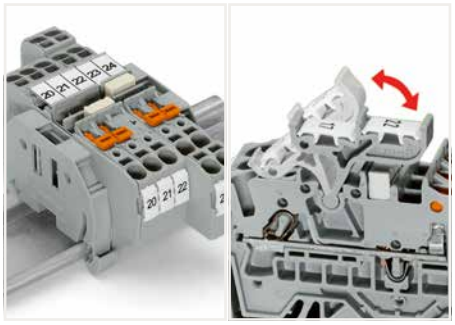
Fuse Terminal Blocks; TOPJOB® S
Description and Installation

Fuse terminal blocks



Fuse plug with blown fuse indication on a 2-conductor carrier terminal block

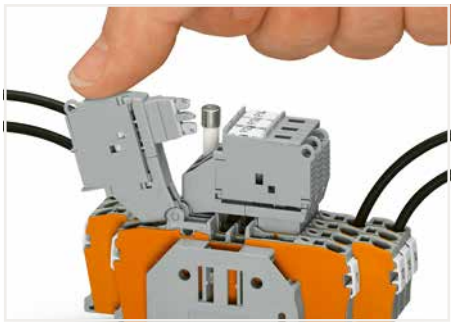
Commoning and marking



Dual jumper slots, in the same position as the 2002 Series terminal blocks. Commoning options in front of or behind the knife disconnect, depending on the power supply direction; additional marking option via pivoting marker carriers.

4

Fuse replacement 1

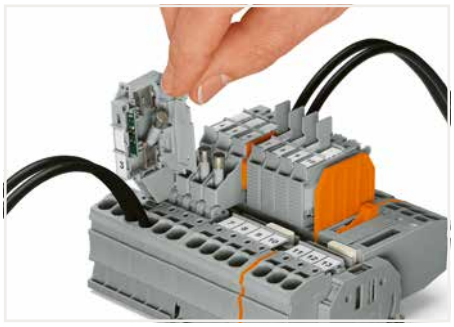


Before replacing the fuse, pivot the fuse holder into the locked open position.

Commoning

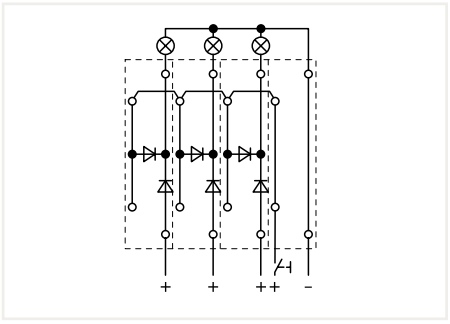
Custom circuit design via push-in type jumper bars. Example shows "lamp test circuit."

Fuse replacement 2



One end of the fuse is automatically ejected from the holder when opening the cover.

Application

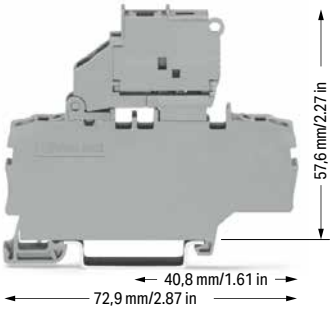


Lamp test circuit

Fused Disconnect Terminal Block with Pivoting Fuse Holder TOPJOB® S; for 5 x 20 mm, 5 x 30 mm and ¼" x 1¼" Miniature Metric Fuse

TOPJOB® S; 2.5 (4) mm²; 2002 Series; 6 (10) mm²; 2006 Series

Technical data	
0.25 … 2.5 (4) mm² ❶	22 … 12 AWG
250 V/6 kV/3 ❸	30 V, 6.3 A
I_N 6.3 A	
Terminal block width: 6.2 mm / 0.244 inch	
10 … 12 mm / 0.39 … 0.47 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for (5 x 20) mm miniature metric fuse; without blown fuse indication
Electrical ratings are given by the fuse

Color	Item No.	Pack. Unit
gray	2002-1911 ❺	50

2-conductor fused disconnect terminal block with a pivoting fuse holder; with additional jumper slot; for (5 x 20) mm miniature metric fuse; with blown fuse indication by LED; gray
Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

	Item No.	Pack. Unit
12 … 30 V	2002-1911/1000-541 ❺	50
30 … 65 V	2002-1911/1000-542 ❺	50
120 V	2002-1911/1000-867 ❺	50
230 V	2002-1911/1000-836 ❺	50

Accessories; item-specific

End plate for fuse terminal blocks; 2 mm thick

orange	2002-992	100 (25)
gray	2002-991	100 (25)

Staggered jumper; insulated; I_N 25 A; light gray

2-way	2002-472	25
…		
12-way	2002-482	25

Adjacent jumper for continuous commoning; insulated; I_N 25 A, light gray

2-way	2002-400	25
1 to 3	2002-423	25

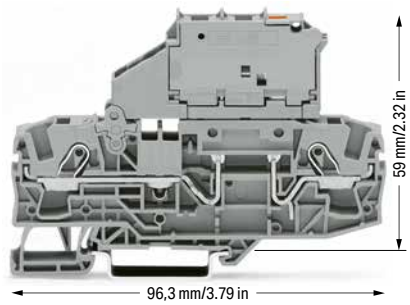
Push-in type jumper bar; insulated; I_N 25 A; light gray

2-way	2002-402	25
…		
10-way	2002-410	25

Marking strip; plain; 11 mm wide; 50 m reel

white	2009-110	1

Technical data	
0.5 … 6 (10) mm² ❷	20 … 8 AWG
800 V/8 kV/3 ❹	30 V, 15 A
I_N 10 A	30 V, 15 A
Terminal block width: 7.5 mm / 0.295 inch	
13 … 15 mm / 0.51 … 0.59 inch	



2-conductor fused disconnect terminal block with a pivoting fuse holder; gray; with blown fuse indication by LED Electrical ratings are given by the fuse and blown fuse indication. Leakage current in case of a blown fuse: LED 2 mA

for (5 x 20) mm miniature metric fuse

	Item No..	Pack. Unit
12 … 30 V	2006-1611/1000-541	25
30 … 65 V	2006-1611/1000-542	25
120 V	2006-1611/1000-867	25
230 V	2006-1611/1000-836	25

for (5 x 30) mm miniature metric fuse

12 … 30 V	2006-1621/1000-541	25
30 … 65 V	2006-1621/1000-542	25
120 V	2006-1621/1000-867	25
230 V	2006-1621/1000-836	25
380 … 500 V	2006-1621/1000-859	25

for ¼" x 1¼" miniature metric fuse

12 … 30 V	2006-1631/1000-541	25
30 … 65 V	2006-1631/1000-542	25
120 V	2006-1631/1000-867	25
230 V	2006-1631/1000-836	25
380 … 500 V	2006-1631/1000-859	25

Accessories; item-specific

End plate for fuse terminal blocks; 2 mm thick

orange	2006-992	100 (25)
gray	2006-991	100 (25)

Push-in type jumper bar; insulated; I_N 41 A; light gray

2-way	2006-402	25
3-way	2006-403	25
4-way	2006-404	25
5-way	2006-405	25

Push-in type jumper bar; insulated; I_N 41 A; light gray

1 to 3	2006-433	25
1 to 4	2006-434	25
1 to 5	2006-435	25

Star point jumper; insulated; I_N = I_N terminal block; light gray

1-3-5	2006-405/011-000	25

WMB marking card; white; 10 strips with 10 markers/card; 5 … 5.2 mm stretchable

plain	793-5501	5

❶ Conductor range: 0.25 … 4 mm² "s+f-st"; Push-in termination: 1 … 4 mm² "s" and 1 … 2.5 mm² "insulated ferrules, 12 mm" Depending on the conductor characteristic, a conductor with a smaller cross section can also be inserted via push-in termination.

❷ Conductor range: 0.5 … 10 mm² "s+f-st"; Push-in termination: 2.5 … 10 mm² "s" and 2.5 … 6 mm² "insulated ferrules; 12 mm" Depending on the conductor characteristic, a conductorwith a smaller cross section can also be inserted via push-in termination.

❸ 250 V = rated voltage
6 kV = rated impulse voltage
3 = pollution degree

❹ 800 V = rated voltage
8 kV = rated impulse voltage
3 = pollution degree

❺ Terminal blocks with an Ex mark are suitable for Ex ec IIc applications.

Approvals and corresponding ratings, visit www.wago.com

Glass cartridge fuses 5 x 20

Series Item No.	Overload and short circuit protection		Short circuit protection only	
	Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
	Fuse terminal blocks			
2002-1911	1.6 W	1.6 W	2.5 W	2.5 W
2002-1911/….-….	1.6 W	1.6 W	2.5 W	2.5 W

Glass cartridge fuses

Series Item No.		Overload and short circuit protection		Short circuit protection only	
		Individual argmt.	Group argmt.	Individual argmt.	Group argmt.
		Fused disconnect terminal blocks			
2006-1611	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1621	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631	7.5	1.6 W	1.6 W	2.5 W	2.5 W
2006-1631 /099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W
2006-1631 /1099-…	10.4	2.5 W	2.5 W	2.5 W	2.5 W

When selecting miniature metric fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal blocks must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.

4

Fuse Terminal Blocks and Fuse Plugs; Classic
Description and Installation

Fuse terminal blocks

Blown fuse indication by LED or neon lamp

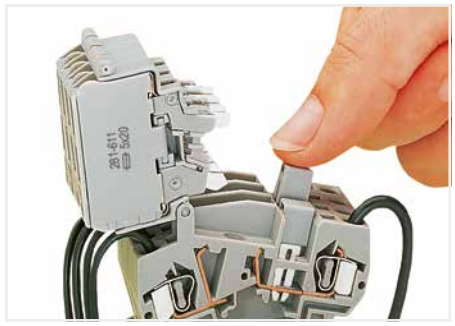
Fuse plug

Fuse plug with blown fuse indication on a 3-conductor carrier terminal block.

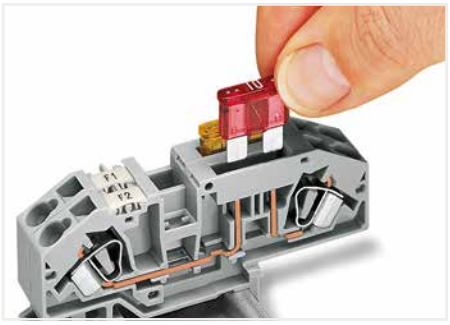
Conductor termination:
Open the clamping unit via integrated lever.

4

Commoning



Distributing current to several fuse-protected circuits via insulated touch-proof jumpers.

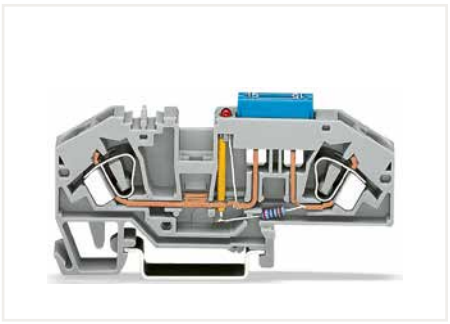


Inserting a fuse.

Open and close lever via screwdriver.

Fuse replacement 1

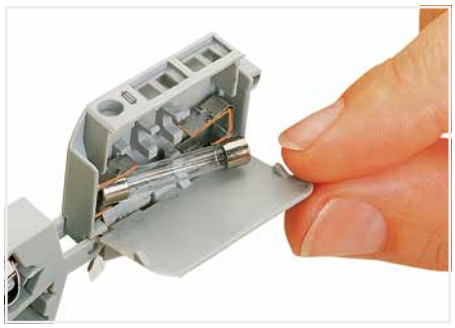
Before replacing the fuse, pivot the fuse holder into the locked open position.



2-conductor fuse terminal block with mini-automotive blade-style fuse

Jumper bar for quick and convenient commoning

Fuse replacement 2



One end of the fuse is automatically ejected from the holder when opening the cover.

Blown fuse indication by LED

Inserting a fuse.

Fuse Terminal Blocks and Fuse Plugs

Classic; 281 / 282 / 811 Series

Image	Description	Miniature Fuse	Nominal Current	Nominal Voltage	Blown Fuse Indication	Color	Item No.	PU
	Fuse disconnect terminal block with pivoting fuse holder; without blown fuse indication 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm				gray	281-611	50
		5 x 20 mm				orange	281-616	50
		5 x 25 mm				gray	281-612	50
		5 x 30 mm				gray	281-622	50
		1/4" x 1"				gray	281-613	50
		1/4" x 1 1/4"				gray	281-623	50
	Fuse disconnect terminal block with pivoting fuse holder; with blown fuse indication by LED 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm			15 … 30 V	gray	281-611/281-541	50
		5 x 20 mm			30 … 65 V	gray	281-611/281-542	50
		5 x 25 mm			15 … 30 V	gray	281-612/281-541	50
		5 x 25 mm			30 … 65 V	gray	281-612/281-542	50
		5 x 30 mm			15 … 30 V	gray	281-622/281-541	50
		5 x 30 mm			30 … 65 V	gray	281-622/281-542	50
		1/4" x 1"			15 … 30 V	gray	281-613/281-541	50
		1/4" x 1"			30 … 65 V	gray	281-613/281-542	50
		1/4" x 1 1/4"			15 … 30 V	gray	281-623/281-541	50
		1/4" x 1 1/4"			30 … 65 V	gray	281-623/281-542	50
	Fuse disconnect terminal block with pivoting fuse holder; with blown fuse indication by neon lamp 800 V / 10 A (6.3 A) 0.08 … 4 mm² / 28 … 12 AWG	5 x 20 mm			230 V	gray	281-611/281-417	50
		5 x 20 mm			120 V	gray	281-611/281-418	50
		5 x 25 mm			230 V	gray	281-612/281-417	50
		5 x 25 mm			120 V	gray	281-612/281-418	50
		5 x 30 mm			230 V	gray	281-622/281-417	50
		5 x 30 mm			120 V	gray	281-622/281-418	50
		1/4" x 1"			230 V	gray	281-613/281-417	50
		1/4" x 1"			120 V	gray	281-613/281-418	50
		1/4" x 1 1/4"			230 V	gray	281-623/281-417	50
		1/4" x 1 1/4"			120 V	gray	281-623/281-418	50
	Adjacent jumper, insulated, I_N = I_N terminal block					gray	281-402	200
	End and intermediate plate, 2.5 mm thick					orange	281-309	100
						gray	281-311	100
	Fuse plugs on carrier terminal blocks	for 5 x 20 mm and 5 x 25 mm miniature metric fuses	6.3 A	250 V		gray	281-511	50
					LED, 48 VDC	gray	281-512/281-414	50
					LED, 24 V AC/DC	gray	281-512/281-501	50
					Neon lamp, 120 V AC/DC	gray	281-512/281-418	50
					Neon lamp, 230 V AC/DC	gray	281-512/281-417	50
	Fuse terminal blocks for mini-automotive, blade-style fuses 0.2 … 6 mm² / 24 … 10 AWG		25 A	400 V	12 V; LED; circuit I	gray	282-698/281-429	25
					12 V; LED; circuit II	gray	282-698/281-449	25
					24 V; LED; circuit I	gray	282-698/281-413	25
					24 V; LED; circuit II	gray	282-698/281-434	25
					Without blown fuse indication	gray	282-696	25
	Adjacent jumper, insulated, I_N 41 A					gray	282-402	100
	3-conductor through terminal block		41 A	800 V		gray	282-699	25
						blue	282-694	25
	End and intermediate plate, 2 mm thick					orange	282-333	100
						gray	282-334	100
	Fuse terminal block for cylindrical fuses	10 x 38 mm	32 A	DC 1000 V	Without blown fuse indication, 1-pole	light gray	811-316	12
					Blown fuse indication, 1-pole	light gray	811-317	12
	Fuse terminal block for cylindrical fuses 2.5 … 16 mm² / 16 … 6 AWG	10 x 38 mm	32 A	AC 690 V; DC 1000 V	Without blown fuse indication, 1-pole	light gray	811-310	12
					Without blown fuse indication, 2-pole	light gray	811-320	6
					Without blown fuse indication, 3-pole	light gray	811-330	4
					Blown fuse indication, 1-pole	light gray	811-311	12
					Blown fuse indication, 2-pole	light gray	811-321	6
					Blown fuse indication, 3-pole	light gray	811-331	4
					Blown fuse indication, 24 V, 1-pole	light gray	811-314	12
	Fuse terminal block for class CC fuses 2.5 … 16 mm² / 16 … 6 AWG				Without blown fuse indication, 1-pole	light gray	811-410	12
					Without blown fuse indication, 2-pole	light gray	811-420	6
					Without blown fuse indication, 3-pole	light gray	811-430	4
					Blown fuse indication, 1-pole	light gray	811-411	12
					Blown fuse indication, 2-pole	light gray	811-421	6
					Blown fuse indication, 3-pole	light gray	811-431	4
					Blown fuse indication, 24 V, 1-pole	light gray	811-414	12
	Push-in type jumper bar, I_N 63 A, 1000 V	2-way				light gray	811-472	50
		12-way				light gray	811-482	20

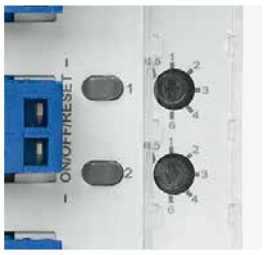
4

WAGO Electronic Circuit Breakers
Selection Guide

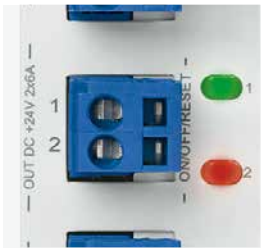
Nominal input/ output voltage	Input/Output				Approvals				Dimensions and Environmental Conditions				Item No.
	Channels (output)	Nominal current (output) [ADC]	Communication	Active current limitation	UL 61010-2-201	UL 2367	cULus 508	DNV	Width [mm]	Height [mm]	Length [mm]	Ambient temperature [°C]	
12 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-100
24 VDC	1	0.5	S		■			■	6	97.8	94	–25 … +70	787-2861/050-000
	1	0.5	S		■	■		■	6	97.8	94	–25 … +70	787-3861/050-000
	1	0.5 … 4	S		■	■		■	6	97.8	94	–25 … +70	787-3861/004-020
	1	1	S		■			■	6	97.8	94	–25 … +70	787-2861/100-000
	1	1	S		■	■		■	6	97.8	94	–25 … +70	787-3861/100-000
	1	1 … 8	S		■			■	6	97.8	94	–25 … +70	787-2861/108-020
	1	1 … 8	S		■	■		■	6	97.8	94	–25 … +70	787-3861/108-020
	1	2	S		■			■	6	97.8	94	–25 … +70	787-2861/200-000
	1	2	S		■	■		■	6	97.8	94	–25 … +70	787-3861/200-000
	1	4	S		■			■	6	97.8	94	–25 … +70	787-2861/400-000
	1	4	S		■	■		■	6	97.8	94	–25 … +70	787-3861/400-000
	1	6	S		■			■	6	97.8	94	–25 … +70	787-2861/600-000
	1	6	S		■	■		■	6	97.8	94	–25 … +70	787-3861/600-000
	1	8	S		■			■	6	97.8	94	–25 … +70	787-2861/800-000
	1	8	S		■	■		■	6	97.8	94	–25 … +70	787-3861/800-000
24 VDC	2	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1662
	2	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1662/000-054
	2	3.8 LPS	M	■		■	■		45	115.5	90	–25 … +70	787-1662/004-1000 [1]
	2	0.5 … 6	M	■		■	■	■	45	115.5	90	–25 … +70	787-1662/006-1000
	2	1 … 6	M			■	■	■	45	115.5	90	–25 … +70	787-1662/106-000
24 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664
	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-004
	4	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1664/000-054
	4	2 … 10	N			■	■	■	45	115.5	90	–25 … +70	787-1664/000-011
	4	1 … 10	I			■	■	■	45	115.5	90	–25 … +70	787-1664/000-080
	4	3.8 LPS	M	■		■	■		45	115.5	90	–25 … +70	787-1664/004-1000 [1]
	4	0.5 … 6	M	■		■	■	■	45	115.5	90	–25 … +70	787-1664/006-1000
	4	1 … 6	M			■	■	■	45	115.5	90	–25 … +70	787-1664/106-000
	4	1 … 6	N			■	■	■	45	115.5	90	–25 … +70	787-1664/106-011
	4	2 … 12	M	■		■	■	■	45	115.5	90	–25 … +70	787-1664/212-1000
	4	0.5 … 6	P	■	□	■	■	■	45	115.5	90	–25 … +70	787-1664/006-1054
24 VDC	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668
	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668/000-004
	8	2 … 10	P			■	■	■	42	142.5	127	–25 … +70	787-1668/000-054
	8	1 … 10	I			■	■	■	42	142.5	127	–25 … +70	787-1668/000-080
	8	0.5 … 6	M	■		■	■	■	42	142.5	127	–25 … +70	787-1668/006-1000
	8	1 … 6	M			■	■	■	42	142.5	127	–25 … +70	787-1668/106-000
	8	1 … 6	M		□	■	■	■	42	142.5	127	–25 … +70	787-1668/106-054
	8	1 … 6	P	■		■	■	■	42	142.5	127	–25 … +70	787-1668/006-1054
48 VDC	2	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1662/000-250
48 VDC	4	2 … 10	M			■	■	■	45	115.5	90	–25 … +70	787-1664/000-200
	4	2 … 10	P			■	■	■	45	115.5	90	–25 … +70	787-1664/000-250
48 VDC	8	2 … 10	M			■	■	■	42	142.5	127	–25 … +70	787-1668/000-200
	8	2 … 10	P			■	■	■	42	142.5	127	–25 … +70	787-1668/000-250

■ Yes □ Pending
[1] NEC Class 2
S = Signal
N = Signal, low-side switching
P = Potential-free signal
I = IO-Link protocol
M = Manchester protocol

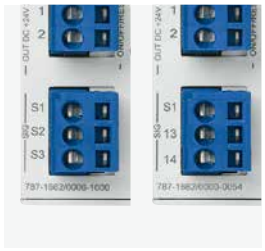
Pluggable CAGE CLAMP® Connection Technology
- Fast, vibration-proof, maintenance-free
- For solid, fine-stranded and ferruled conductors
- 100% protected against mismating
- With marking



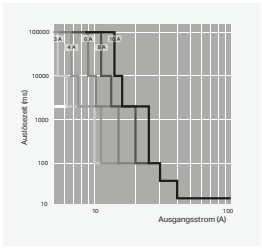
Rotary Switch
- Nominal current can be individually adjusted for each channel
- The setting is visible, even when no voltage is applied
- Transparent cover can be sealed and marked



Intuitive Status Indication
- Each output channel has backlit buttons for switching on/off, as well as acknowledgement
- Integrated, multi-color LEDs indicate the operating status of each channel

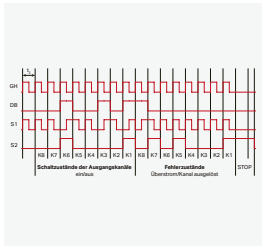


Communication 1.0
- Remote digital input S1 resets all tripped channels
- Digital output S3 transmits a simple group message indicating whether one of the channels was triggered by an overcurrent.
- Optional isolated signal contact 13/14 as group signal



Trip Characteristics
- Reliable and precise disconnection in case of overcurrent or short circuit
- Nominal currents can be set separately for each channel in 1 A increments
- Tripping time can be configured in defined increments
- Optional, active short circuit current limitation to 1.5 times the nominal current prevents a voltage drop in other current paths

*Only for 787-166x/xxxx-1xxx



Communication 2.0
- Remote digital input (S1) switches certain channels on and off via pulse sequence.
- Digital output (S2) transmits the current status (on/off/tripped/overcurrent) of each individual channel
- Optional transmission of input voltage and output/nominal current value for each channel

Marking
- Device identification via WMB Markers or TOPJOB® S Marking Strips
- Label individual channels via marking strips that can be inserted into the rotary switch cover from the outside

IO-Link

Communication 3.0
- IO-Link interface
- Read the status, the set nominal current, current voltage values and current values per channel
- Set the rated current as well as switch on/off and reset individual channels

4

Overvoltage Protection

Overvoltage Protection for Increased Safety and Longer On-Line Operation

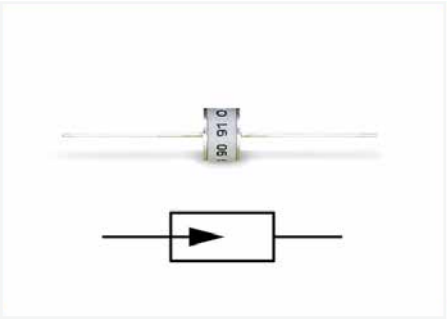
On-the-line overvoltages cause most operating failures for measuring, control, data and power lines. Failure of electronic and semiconductor components due to surges can cause operating interruptions. The overvoltage (also called transients) can be generated by switching electrical equipment on or off or by lighting discharges. Depending on the application, protective measures for systems and devices can be broken down into:

- Coarse protection
- Medium protection
- Fine protection

The boundaries between these levels of protection may not be sharply defined. To implement the appropriate protection measures, various components are used for discharging transient overvoltage, depending on the protection type. The following components have proven performance in these applications:

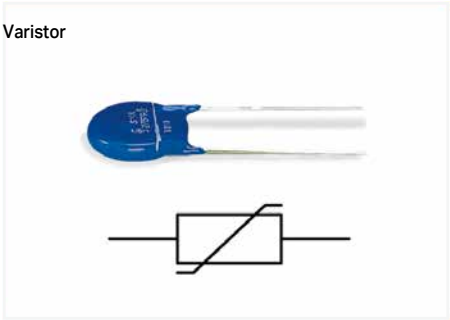
4

Gas-Filled Surge Arrester



The gas filled surge arrester is comprised of two electrodes in a ceramic or glass tube filled with a pressurized inert gas.
Once the ignition voltage is reached, resistance drops due to ionization and current begins to flow. The resistance of the device drops from high to low as it conducts. The voltage across the device after the arc is struck is typically 10 ... 30 V. Therefore, the current will continue to flow until the voltage drops below this level. As this is not a guaranteed occurrence in typical power situations, a fuse must precede the device to ensure disconnection from the supply. This is always the case if the nominal voltage of the protected network is greater than 12 VDC and the nominal voltage of the power supply and the protected circuit is greater than 100 mA.

Varistor



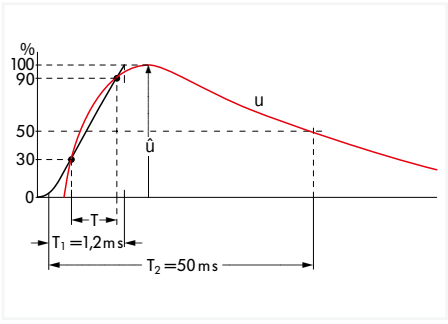
A varistor is a voltage-dependent resistor, in which the resistance becomes low after their "nominal voltage" is exceeded and for the voltage range above it, and can thus cut off any overvoltages through high discharge currents. Varistors can age with continued surge conduction, resulting in lower impedance even in the lower voltage range. However, this normally only occurs when a varistor frequently discharges transients. In this case, they must be replaced and specific time intervals.

Suppressor Diode

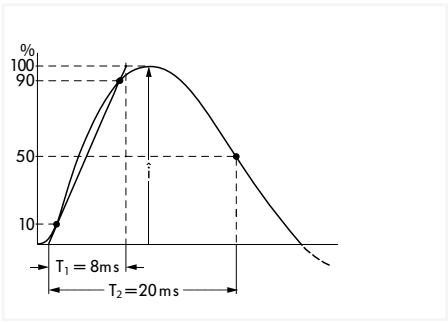
Suppressor diodes have electrical characteristics similar to Zener diodes, but are rated for surge currents.
Once the rated breakdown voltage is exceeded (in the non-conductive direction), the diode becomes a conductor. The suppressor diode differs from a Zener in its higher current carrying capability and faster response time (in the picosecond range).

Test Impulse

Surge arresters are subject to standardized test pulses in order to classify capabilities; the effectiveness of protection measures with reference to dissipation capacity and voltage arresting. The form and level of the test pulses are defined by IEC 60060-1 and EN 62475:2010. Preference is given to voltage pulses of 1.2/50 and current pulses of 8/20.



Voltage pulses 1.2/50 per IEC 60060-1



Current pulses 8/20 per EN 62475:2010

Application Recommendations

The advantages of gas-filled surge arresters lie in their high current carrying capacity, making them ideal for coarse protection. One disadvantage, particularly in the medium protection range, is the relatively long response time, as well as the power follow current.
Varistors have a considerably shorter response time; however they also have lower leakage currents. This makes them more suitable for medium protection as they offer limited applications for coarse protection.
If the connection lines of electronic equipment are already "fine" protected, general coarse and medium protection measures are sufficient. If this is not the case, suppressor diodes with a very short response time may be employed as fine protection. WAGO offers a complete range of modular terminal blocks with integrated surge arresters for coarse, medium and fine protection.
Depending on the application, one can choose the appropriate type from the previously mentioned surge arresters. These are electrically connected in the modular terminal blocks between the connection point and mounting rail. Snapping the terminal block onto the grounded (earthed) mounting rail automatically ensures the required overvoltage protection.

Double-deck terminal block, with varistor direct connection to DIN-35 rail

Frequently, only one surge arrester is fitted for cost reasons. However, due to the fact that one surge arrester alone cannot optimally ensure several protection functions, combinations are recommended. Care must be taken to ensure that the single-stage protection devices are decoupled sufficiently by inductors or resistors.

Overvoltage Protection

Interference suppression modules are a special category here.
In addition to overvoltage protection, a high frequency interference filter can be added to the circuitry. This filter cannot only protect the equipment from high frequency energy transmitted by connecting wires, but also prevents a transmission of disturbances to the supply lines. The main component of a filter is an LC network, which produces a mismatch between the filter impedance and the impedance of the disturbance path. This reflects any disturbance back to its source.

Definition of Several Important Technical Terms

Nominal Operating Voltage (U_{BN})

The nominal operating voltage corresponds to the voltage which may be permanently connected to the appropriate connection terminals of the overvoltage protection module. Alternating voltages are quoted as effective values.

Max. Operating Voltage (U_{Bmax})

The maximum operating voltage corresponds to the voltage which may be permanently connected to the appropriate connection terminals without the operating properties changing or activating the individual module's protection elements.

Nominal Current (I_N)

The nominal current corresponds to the current which may permanently flow through the connection terminals of the overvoltage protection device.

Nominal Discharge Current (I_{SN})

The nominal discharge current is the maximum value of a current having the 8/20 µs waveform, which can flow through the surge arrester five times within a time period of 30 seconds (VDE) without destroying it.

Max. Surge Current (I_{Smax})

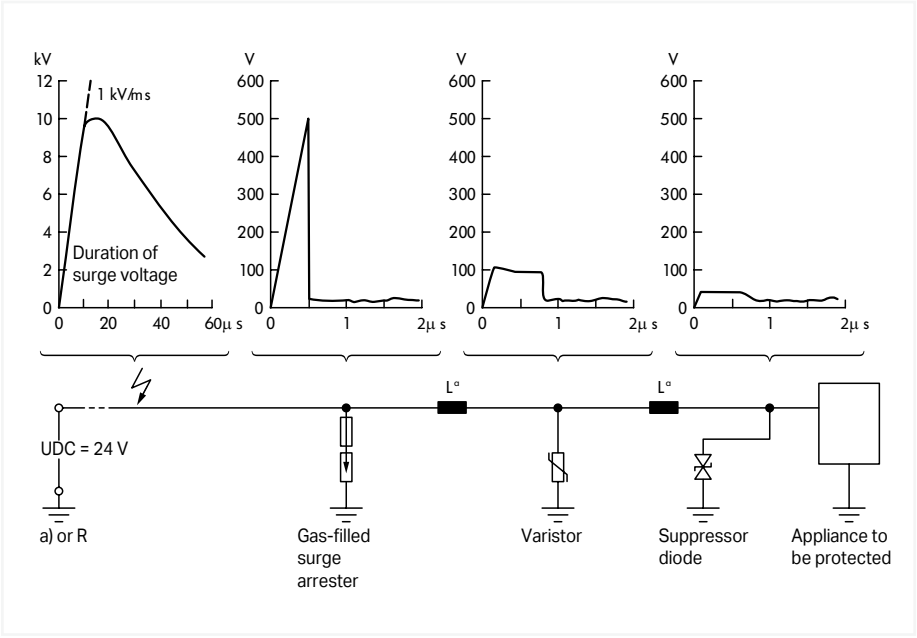
The maximum surge current ISmax defines the maximum value of a current having the 8/20 µs waveform, which can flow through the surge arrester once without destroying it.

Protection Level (U_P)

The protection level is the value of the residual voltage occurring on the "protected" side of the surge arrester when applying the rated discharge current.

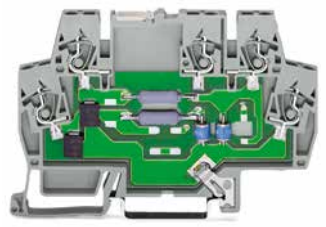
Response Time (t_{resp})

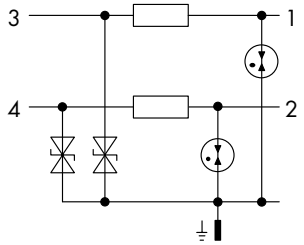
The response time is primarily based on the physical properties of the surge arresters and is dependent upon the wave front duration of the surge voltage. WAGO's data refers to a voltage rise 1kV/µs.



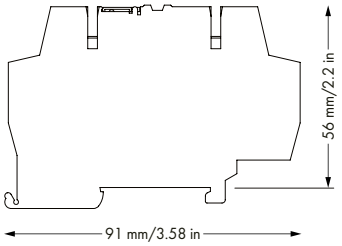
Function diagram of a multi-stage surge voltage protection module

Surge suppression module for signal technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; for unbalanced interfaces; Two-stage; Width: 6 mm
792 Series





Nominal Voltage	Item No.	PU
24 VDC	792-800	1



Short description:
Provides surge protection for IT systems and devices in the voltage range up to 60 V (except custom solutions, e.g., telephone systems with ringing voltage).

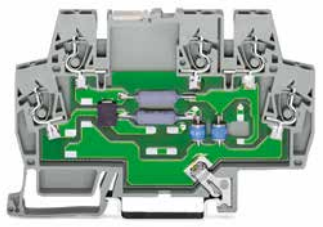
Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge arresters in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g., LON® network, PROFIBUS network, binary signals).

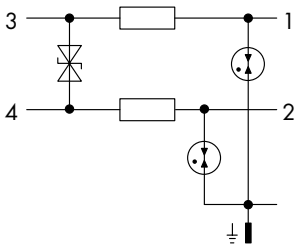
Features:
- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

Note
The coordination characteristics of the surge arrester provide information about its discharge capacity and protection capability.

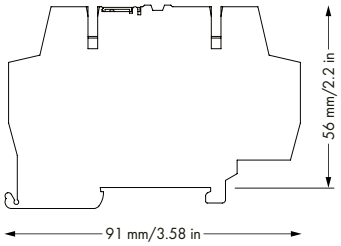
Electrical data	
Nominal operating voltage	24 VDC
Highest continuous voltage	23 VAC / 33 VDC
Nominal current	0.5 A
Nominal discharge current (8/20 µs) (line)	5 kA
Nominal discharge current (8/20 µs) (total)	10 kA
Protection level (line/line) (cat. C2 at I_N)	≤ 110 V
Protection level (line/protected ground) (cat. C2 at I_N)	≤ 65 V
Protection level (line/line) (cat. C3 at I_N)	≤ 90 V
Protection level (line/protected ground) (cat. C3 at I_N)	≤ 45 V
Limit frequency (line/line)	6 MHz
Limit frequency (line/protected ground)	6 MHz
Impedance	1.8 Ω
Safety and protection	
Protection type	IP00; IP20 with end and intermediate plate
Connection data	
Connections (number)	5
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inches
Physical data	
Width	6 mm / 0.236 inches
Height from upper-edge of DIN-rail	56 mm / 2.205 inches
Depth	91 mm / 3.583 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	38.8 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +80 °C
Ambient temperature (storage)	-40 … +80 °C
Standards and specifications	
Standards/specifications	IEC 61643-21

Surge suppression module for signal technology; Nominal voltage: 24 VDC; for 2 signal paths with common surge arrester; for symmetric interfaces; Two-stage; Width: 6 mm
792 Series





Nominal Voltage	Item No.	PU
24 VDC	792-801	1



Short description:
Provides surge protection for IT systems and devices in the voltage range up to 60 V (except custom solutions, e.g., telephone systems with ringing voltage).

Overvoltage protection is also possible for DIN-35 rail-mount terminal blocks. Multi-stage surge arresters in rail-mount terminal blocks (792-80x Series) of just 6 mm width ensure cost-effective protection for control and bus technology (e.g., LON® network, PROFIBUS network, binary signals).

Features:
- Protect your system against overvoltage
- Slim, space-saving design
- Control operational costs by preventing expensive, unplanned downtime
- High operational reliability and system uptime

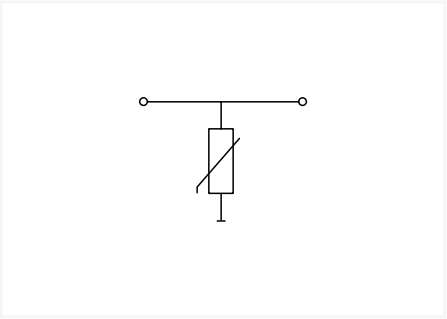
Note
The coordination characteristics of the surge arrester provide information about its discharge capacity and protection capability.

Electrical data	
Nominal operating voltage	24 VDC
Highest continuous voltage	23 VAC / 33 VDC
Nominal current	0.5 A
Nominal discharge current (8/20 µs) (line)	5 kA
Nominal discharge current (8/20 µs) (total)	10 kA
Protection level (line/line) (cat. C2 at I_N)	≤ 50 V
Protection level (line/protected ground) (cat. C2 at I_N)	≤ 750 V
Protection level (line/line) (cat. C3 at I_N)	≤ 45 V
Protection level (line/protected ground) (cat. C3 at I_N)	≤ 650 V
Limit frequency (line/line)	6 MHz
Limit frequency (line/protected ground)	6 MHz
Impedance	1.8 Ω
Safety and protection	
Protection type	IP00; IP20 with end and intermediate plate
Connection data	
Connections (number)	5
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Strip length	5 … 6 mm / 0.2 … 0.24 inches
Physical data	
Width	6 mm / 0.236 inches
Height from upper-edge of DIN-rail	56 mm / 2.205 inches
Depth	91 mm / 3.583 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	38.7 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +80 °C
Ambient temperature (storage)	-40 … +80 °C
Standards and specifications	
Standards/specifications	IEC 61643-21

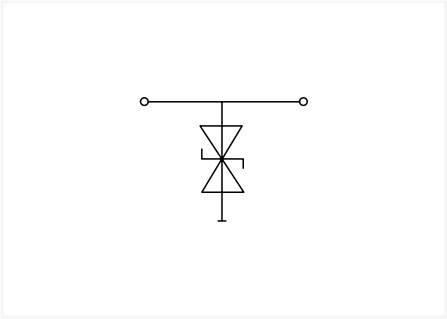
4

Component Terminal Block; with Surge Arrester; for DIN-35 Rail
280 Series

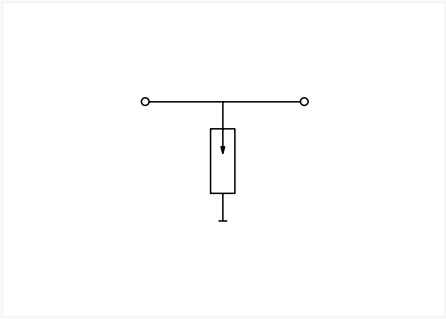
Image	Description	Nominal Operating Voltage	Item No.	PU
	Component terminal block; double-deck; with varistor; with direct connection to DIN-35 rail	24 VDC	280-502/281-609	50
		48 VDC	280-502/281-610	50
		60 VDC	280-502/281-611	50
		110 VDC	280-502/281-612	50
		24 VAC	280-502/281-613	50
		115 VAC	280-502/281-614	50
	Component terminal block; double-deck; with direct connection to DIN-35 rail			
	with P6KE36C TVS diode	24 VDC	280-502/281-602	50
	with P6KE68C TVS diode	48 VDC	280-502/281-603	50
	with P6KE91C TVS diode	60 VDC	280-502/281-604	50
	with BZW06-B TVS diode	110 VDC	280-502/281-605	50
	with BZW06-40B TVS diode	24 VAC	280-502/281-606	50
	with BZW06-B TVS diode	115 VAC	280-502/281-607	50
	with P6KE400CA TVS diode	230 VAC	280-502/281-608	50
	Component terminal block; double-deck; with varistor; with end plate; with direct connection to DIN-35 rail	24 VDC	280-502/281-582	25
		48 VDC	280-502/281-583	25
		60 VDC	280-502/281-584	25
		110 VDC	280-502/281-585	25
		24 VAC	280-502/281-586	25
		115 VAC	280-502/281-587	25
		230 VAC	280-502/281-588	25
	Component terminal block; double-deck; with end plate; with direct connection to DIN-35 rail			
	with 1.5KE33C TVS diode	24 VDC	280-502/281-589	25
	with 1.5KE62C TVS diode	48 VDC	280-502/281-590	25
	with 1.5KE82C TVS diode	60 VDC	280-502/281-591	25
	with 1.5KE150C TVS diode	110 VDC	280-502/281-592	25
	with 1.5KE39CA TVS diode	24 VAC	280-502/281-593	25
	with 1.5KE-C TVS diode	115 VAC	280-502/281-594	25
	with 1.5KE-C TVS diode	230 VAC	280-502/281-595	25
	Component terminal block; double-deck; with Gas-Filled Surge Arrester; with end plate; with direct connection to DIN-35 rail	24 VAC/VDC	280-503/281-579	25
		115 VAC/VDC	280-503/281-580	25
		230 VAC/VDC	280-503/281-581	25



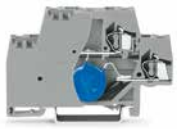
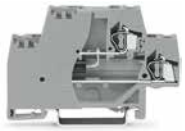
Component Terminal Block with Varistor

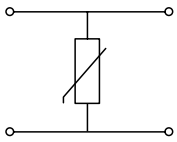


Component Terminal Block with TVS Diode

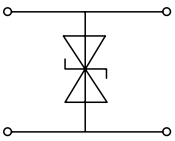


Component Terminal Block with Gas-Filled Surge Arrester

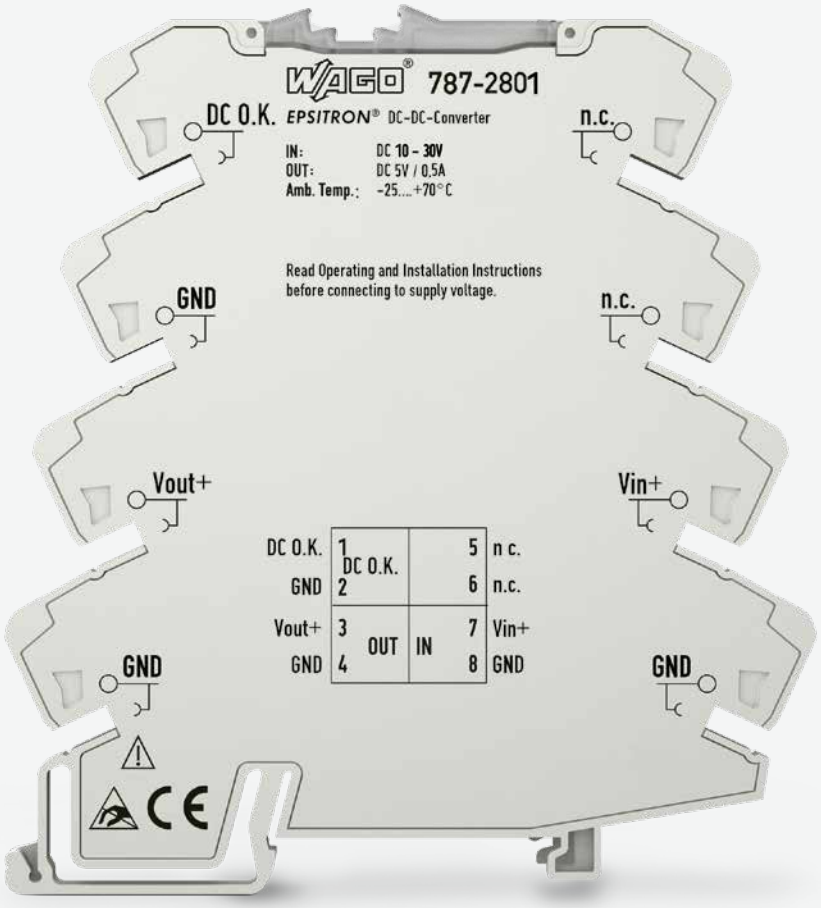
Image	Description	Nominal Operating Voltage	Item No.	PU
	Component terminal block; double-deck; with varistor; with end plate	24 VDC	**280-504/281-582**	25
		48 VDC	**280-504/281-583**	25
		60 VDC	**280-504/281-584**	25
		110 VDC	**280-504/281-585**	25
		24 VAC	**280-504/281-586**	25
		115 VAC	**280-504/281-587**	25
		230 VAC	**280-504/281-588**	25
	Component terminal block; double-deck; with end plate			
	with 1.5KE33C TVS diode	24 VDC	**280-944/281-589**	25
	with 1.5KE62C TVS diode	48 VDC	**280-944/281-590**	25
	with 1.5KE82C TVS diode	60 VDC	**280-944/281-591**	25
	with 1.5KE150C TVS diode	110 VDC	**280-944/281-592**	25
	with 1.5KE39CA TVS diode	24 VAC	**280-944/281-593**	25
	with 1.5KE-C TVS diode	115 VAC	**280-944/281-594**	25
	with 1.5KE-C TVS diode	230 VAC	**280-944/281-595**	25



Component Terminal Block with Varistor



Component Terminal Block with TVS Diode



WAGO DC/DC Converters

WAGO DC/DC Converters

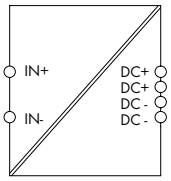
WAGO DC/DC Converters
Selection Guide

Nominal voltage (input) [DC V]	Nominal voltage (output) [DC V]	Nominal current (output) [A]	Approvals						DC OK signal/ contact	Efficiency typ. [%]	Ambient temperature [°C] [4]	Item Number	Page
			EN 50155	EN 60335	UL 61010-2-201	DNV	ANSI/ISA 12.12.1	ATEX/IEC Ex					
24.0	5.0	0.5			■				■	82.5	–25 … +70	**787-2801**	141
24.0	10.0	0.5			■				■	89.0	–25 … +70	**787-2802**	142
48.0	24.0	0.5			■				■	91.0	–25 … +70	**787-2803**	144
24.0	12.0	0.5			■				■	90.0	–25 … +70	**787-2805**	143
24.0	5/10/12	0.5			■				■	82.5	–25 … +70	**787-2810**	145
24.0	12.0	0.4			■					84.0	–25 … +70	**787-1650**	140
110.0	24.0	2.0	■		■					85.0	–40 … +70	**787-1014**	137
72.0	24.0	2.0	■		■					86.0	–40 … +70	**787-1014/072-000**	138
72.0	12.0	4.0	■		■	■				86.0	–40 … +70	**787-1015/072-000**	139

■ Yes ☐ Pending

5

DC/DC Converter; Compact; 110 VDC input voltage; 24 VDC output voltage; 2 A output current
787 Series



DC/DC Converter; Compact; 110 VDC input voltage; 24 VDC output voltage; 2 A output current

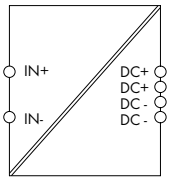
	Item No.	PU
	787-1014	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1
- Control deviation: ±1 % (±10 % within the application range of EN 50121-3-2)
- Suitable for railway applications

Input	
Nominal input voltage $U_{i\,nom}$	110 VDC
Input voltage range	77 … 140 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.77 A (77 VDC); ≤ 0.42 A (140 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (77 VDC); ≥ 25 ms (140 VDC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1.9 W (110 VDC; no load); ≤ 9.9 W (110 VDC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	9.9 W (77 VDC / 24 VDC; 2 A)
Efficiency (typ.)	85 %
Circuit protection	
Internal fuse	T 4 A / 125 VDC
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/Protection type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Resistance to shock and vibration	Category 1, Class B (per EN 61373:2010)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth	72 x 89 x 59 mm / 2.835 x 3.504 x 2.323 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mounting type	DIN-35 rail
Weight	250 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2; DNV
Standards/specifications (pending)	EN 50125; UL 60950; UL 508

DC/DC Converter; Compact; 72 VDC input voltage; 24 VDC output voltage; 2 A output current
787 Series

Similar to pictured device



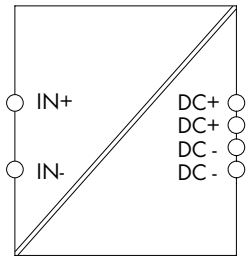
DC/DC Converter; Compact; 72 VDC input voltage; 24 VDC output voltage; 2 A output current		
	Item No.	PU
	787-1014/072-000	1

Features:
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1
- Control deviation: ±1 % (±10 % within the application range of EN 50121-3-2)
- Suitable for railway applications

Input	
Nominal input voltage $U_{i\,nom}$	72 VDC
Input voltage range	40 … 90 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.79 A (72 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (72 VDC)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal output current $I_{o\,nom}$	2 A (24 VDC); 1.6 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 2 W (72 VDC; no load); ≤ 9 W (72 VDC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	10.5 W (40 VDC / 24 VDC; 2 A)
Efficiency (typ.)	84 %
Circuit protection	
Internal fuse	T 4 A / 125 VDC
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/Protection type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Resistance to shock and vibration	Category 1, Class B (per EN 61373:2010)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth	72 x 89 x 59 mm / 2.835 x 3.504 x 2.323 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mounting type	DIN-35 rail
Weight	250 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2; DNV
Standards/specifications (pending)	EN 50125; UL 60950; UL 508

DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

787 Series



DC/DC Converter; Compact; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

	Item No.	PU
	787-1015/072-000	1

Features:

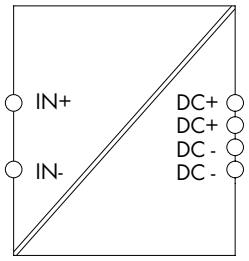
- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1
- Control deviation: ±1 % (±10 % within the application range of EN 50121-3-2)
- Suitable for railway applications

Input	
Nominal input voltage $U_{i\,nom}$	72 VDC
Input voltage range	40 … 90 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.79 A (72 VDC)
Inrush current	≤ 30 A (NTC)
Mains failure hold-up time	≥ 8 ms (72 VDC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Nominal output current $I_{o\,nom}$	4 A (24 VDC); 3.1 A (in any mounting position)
Nominal output power	48 W
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1.2 W (72 VDC; no load); ≤ 8.6 W (72 VDC; nominal load)
Power loss (max.) $P_{l\,(max.)}$	9.7 W (40 VDC / 12 VDC; 4 A)
Efficiency (typ.)	85 %
Circuit protection	
Internal fuse	T 4 A / 125 VDC
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Protection class/Protection type	II / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 21.5 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Resistance to shock and vibration	Category 1, Class B (per EN 61373:2010)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth	72 x 89 x 59 mm / 2.835 x 3.504 x 2.323 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mounting type	DIN-35 rail
Weight	235 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 50121-3-2; EN 50125; DNV

DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

787 Series

Foto ähnlich



DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated

	Item No.	PU
	787-1650	1

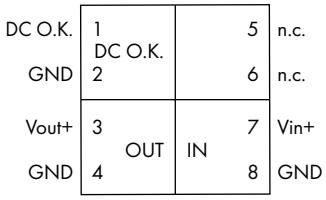
Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1
- Control deviation: ± 1 %

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	18 … 60 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 2.56 A (24 VDC); ≤ 0.96 A (60 VDC); ≤ 3.39 A (18 VDC)
Inrush current	≤ 60 A (NTC)
Mains failure hold-up time	≥ 5 ms (24 VDC)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Output voltage range	11.5 … 14.5 VDC (adjustable)
Nominal output current $I_{o\,nom}$	4 A
Nominal output power	48 W
Residual ripple	≤ 50 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Overload behavior	Constant current
Signaling and communication	
Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)
Efficiency/power losses	
Power loss P_l	≤ 1 W; ≤ 11.7 W (DC_{in} 24 V / 4 A); ≤ 1.28 W (48 VDC; 40 A)
Power loss (max.) $P_{l\,(max.)}$	15 W (DC_{in} 18 V / 4 A)
Efficiency (typ.)	84 %
Circuit protection	
Internal fuse	T 4 A / 250 VDC
Backup fusing (recommended)	T 6.3 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-2 %/K (> 55 °C)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	45 x 90 x 107.5 mm / 1.772 x 3.543 x 4.232 inches
Mounting type	DIN-35 rail
Weight	240 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16

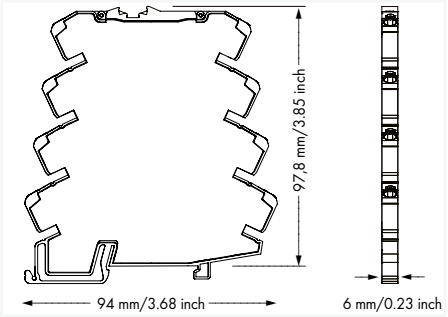
DC/DC Converter; 24 VDC input voltage; 5 VDC output voltage; 0.5 A output current; DC OK contact

787 Series



DC/DC Converter; 24 VDC input voltage; 5 VDC output voltage; 0.5 A output current; DC OK contact

Item No.	PU
787-2801	1



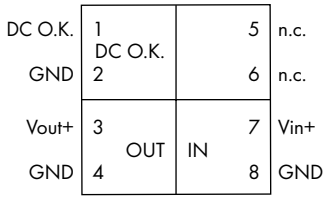
Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	10 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.34 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$	5 VDC
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	2.5 W
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Operation status indicator	Green LED (U_o); Red LED (short circuit)
Efficiency/power losses	
Power loss P_l	≤ 0.13 W; ≤ 0.6 W (nominal load)
Efficiency (typ.)	82.5 % (at nominal input voltage and nominal output)
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/No
MTBF	> 1,800,000 h
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	No derating
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	6 x 94 x 97.8 mm / 0.236 x 3.701 x 3.85 inches
Mounting type	DIN-35 rail
Weight	48.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

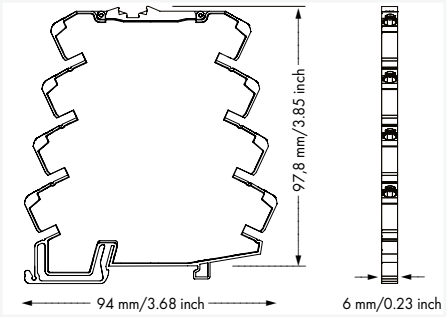
DC/DC Converter; 24 VDC input voltage; 10 VDC output voltage; 0.5 A output current; DC OK contact

787 Series



DC/DC Converter; 24 VDC input voltage; 10 VDC output voltage; 0.5 A output current; DC OK contact

Item No.	PU
787-2802	1



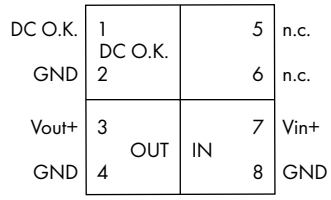
Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.42 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$	10 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	5 W
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Operation status indicator	Green LED (U_o); Red LED (short circuit)
Efficiency/power losses	
Power loss P_l	≤ 0.19 W; ≤ 0.7 W (nominal load)
Efficiency (typ.)	89 % (at nominal input voltage and nominal output)
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/No
MTBF	> 1,800,000 h
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	No derating
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	6 x 94 x 97.8 mm / 0.236 x 3.701 x 3.85 inches
Mounting type	DIN-35 rail
Weight	36 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

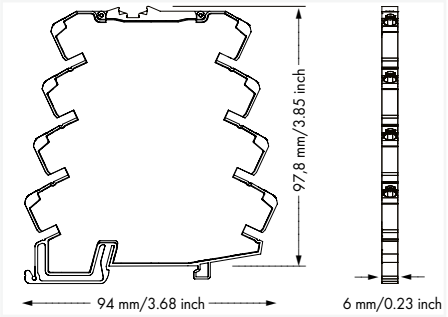
DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 0.5 A output current; DC OK contact

787 Series



DC/DC Converter; 24 VDC input voltage; 12 VDC output voltage; 0.5 A output current; DC OK contact

Item No.	PU
787-2805	1



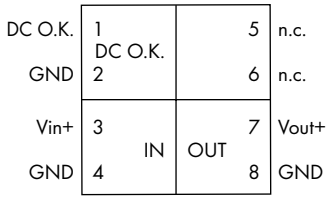
Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.5 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$	12 VDC
Output voltage range	±2 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	6 W
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Operation status indicator	Green LED (U_o); Red LED (short circuit)
Efficiency/power losses	
Power loss P_l	≤ 0.21 W; ≤ 0.7 W (nominal load)
Efficiency (typ.)	90 % (at nominal input voltage and nominal output)
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/No
MTBF	> 1,800,000 h
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	No derating
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	6 x 94 x 97.8 mm / 0.236 x 3.701 x 3.85 inches
Mounting type	DIN-35 rail
Weight	48.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

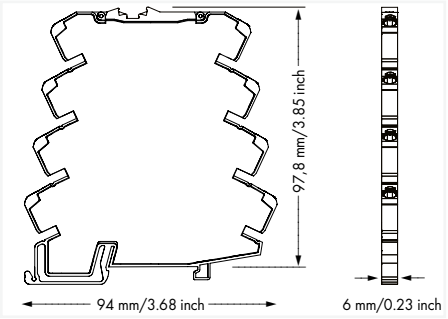
DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact

787 Series



DC/DC Converter; 48 VDC input voltage; 24 VDC output voltage; 0.5 A output current; DC OK contact

Item No.	PU
787-2803	1



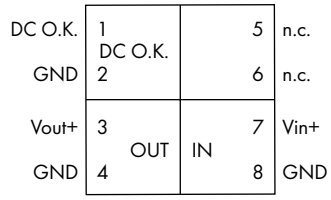
Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	48 VDC
Input voltage range	40 … 55 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.34 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	12 W
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Operation status indicator	Green LED (U_o); Red LED (short circuit)
Efficiency/power losses	
Power loss P_l	≤ 0.29 W; ≤ 1.2 W (nominal load)
Efficiency (typ.)	91 % (at nominal input voltage and nominal output)
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/No
MTBF	> 1,800,000 h
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	No derating
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	6 x 94 x 97.8 mm / 0.236 x 3.701 x 3.85 inches
Mounting type	DIN-35 rail
Weight	32.6 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

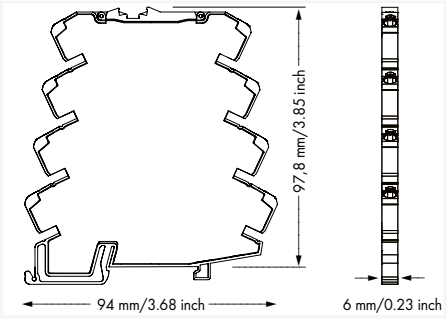
DC/DC Converter; 24 VDC input voltage; 5/10/12 VDC adjustable output voltage; 0.5 A output current; DC OK contact

787 Series



DC/DC Converter; 24 VDC input voltage; 5/10/12 VDC adjustable output voltage; 0.5 A output current; DC OK contact

	Item No.	PU
	787-2810	1



Features:

- DC/DC converter in a compact 6 mm housing
- DC/DC converters (787-28xx) supply devices with 5, 10, 12 or 24 VDC from a 24 or 48 VDC power supply with an output power up to 12 W.
- Output voltage monitoring via DC OK signal output
- Can be commoned with 857 and 2857 Series devices
- Comprehensive range of approvals for multiple applications

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	15 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.5 A
Inrush current	≤ 0.5 A (at nominal input voltage)
Output	
Nominal output voltage $U_{o\,nom}$	5 / 10 / 12 VDC (Adjustable via DIP switch)
Output voltage range	±3 %
Nominal output current $I_{o\,nom}$	0.5 A
Nominal output power	2.5 W
Residual ripple	≤ 20 mV (peak-to-peak)
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Short circuit LED (red); 1 x Active signal output (U_i, max. 4 mA)
Operation status indicator	Green LED (U_o); Red LED (short circuit)
Efficiency/power losses	
Power loss P_l	≤ 0.21 W; ≤ 0.7 W (nominal load)
Efficiency (typ.)	82.5 % (at nominal input voltage and nominal output)
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Short-circuit-protected/open-circuit-proof	Yes/Yes
Parallel/series operation	No/No
MTBF	> 1,800,000 h
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	No derating
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail	6 x 94 x 97.8 mm / 0.236 x 3.701 x 3.85 inches
Mounting type	DIN-35 rail
Weight	36.4 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; EN 60950-1; UL 61010-2-201

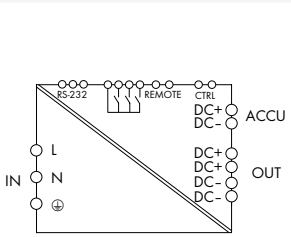
WAGO UPS Charger and Controller and WAGO Capacitive Buffer Modules

WAGO UPS Charger and Controller and WAGO Capacitive Buffer Modules

6

Switched-mode power supply with integrated charger and controller; Classic; 1-phase; 24 VDC output voltage; 5 A output current; Communication capability

787 Series



Switched-mode power supply with integrated charger and controller; Classic; 1-phase; 24 VDC output voltage; 5 A output current; Communication capability

	Item No.	PU
	787-1675	1

Features:

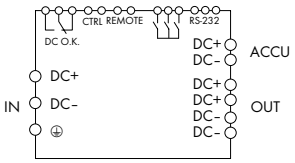
- Switched-mode power supply with integrated charger and controller for uninterruptible power supply (UPS)
- Battery control technology for smooth charging and predictive maintenance applications
- Potential-free contacts provide function monitoring
- Buffer time can be set on site via rotary switch
- Parameter setting and monitoring via RS-232 interface
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Input	
Nominal input voltage $U_{i\,nom}$	100 … 240 VAC
Input voltage range	85 … 264 VDC; 120 … 372 VDC
Input voltage derating	-1.5 %/V (< 110 VAC); -1 %/V (< 150 VDC)
Nominal mains frequency range	44 … 66 Hz; 0 Hz
Input current I_i	≤ 1.1 A (230 VAC; 5 ADC); ≤ 2.2 A (110 VAC; 5 ADC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 … 28.5 VDC (mains operation); 18.5 … 27.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	5 A
Nominal output power	120 W
Residual ripple	≤ 50 mV (peak-to-peak)
Current limitation	1.1 x $I_{o\,nom}$ (typ.); TopBoost
Overload behavior	Constant current
Energy storage system	
Buffer time	1 s … 20 min or constant; PC mode; configurable via software
Switch-on threshold (adjustable)	20 … 25.5 VDC (Adjustable via software; 22 VDC (pre-configured))
Charging current	0.3 … 1 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873, 787-876, 787-1671
Signaling and communication	
Signaling	1 x Alarm LED (red); 1 x Battery charge LED (yellow); 1 x LED DC OK (green); 1 x RS-232 interface
Operation status indicator	Green LED (DC OK); Yellow LED (battery mode); Red LED (alarm)
Communication	RS-232 serial interface
Remote input	Switching buffer mode off
Efficiency/power losses	
Power loss P_l	≤ 5.2 W (Buffer mode; 24 VDC; 5 A); ≤ 17 W (Mains operation; 230 VAC; 24 VDC; 5 A); ≤ 22 W
Power loss (max.) $P_{l\,(max.)}$	30 W (90 VAC; charging)
Efficiency (typ.)	88 %
Circuit protection	
Internal fuse	T 4 A / 250 VAC (input side)
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C
Safety and protection/Environmental requirements	
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class/Protection type	I / IP20; per EN 60529
Reverse voltage protection	Yes
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit; ≤ 38 VDC (in the event of a fault)
Parallel operation	Yes, max. 3 battery modules for buffer time extension
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C (device starts at −40 °C, type-tested)
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)

Connection data	
Connection technology	CAGE CLAMP®
Input/Output/Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Interface (solid/fine-stranded/AWG)	0.08 … 1.5 mm² / 0.08 … 1.5 mm² / 28 … 14 AWG
Cable length (max.)	3 m (Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	60 x 127 x 135.5
Mounting type	DIN-35 rail
Weight	847.8 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61204-3; EN 61558-2-16; UL 60950; UL 508; DNV

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; LineMonitor; Communication capability

787 Series



UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; LineMonitor; Communication capability

	Item No.	PU
	787-870	1

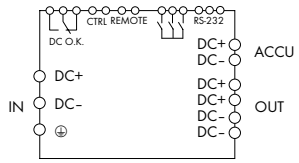
Features:

- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for function monitoring
- Remote input for deactivating the buffered output
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563 onwards) detects both battery life and battery type

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load); ≤ 1.5 A (charging); ≤ 21.5 A
Inrush current	≤ 4 A (no load)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20 … 25.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Current limitation	1.1 … 1.3 x $I_{o\,nom}$ (typ.)
Energy storage system	
Buffer time	10 s … 10 min or constant; adjustable
Switch-on threshold (adjustable)	20 … 25.5 VDC
Charging current	≤ 1 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 1 x RS-232 interface
Operation status indicator	Green LED (U_o); Yellow LED (warning); Red LED (error)
Communication	RS-232 serial interface
Remote input	Switching buffer mode off
Efficiency/power losses	
Power loss P_l	≤ 15 W; ≤ 30 W (nominal load)
Efficiency (typ.)	95 %
Circuit protection	
Internal fuse	T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III
Reverse voltage protection	Yes
Pollution degree	2
Parallel operation	Yes, max. 3 battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	57 x 171 x 163; Height with connector
Mounting type	DIN-35 rail
Weight	1200 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; LineMonitor; Communication capability

787 Series



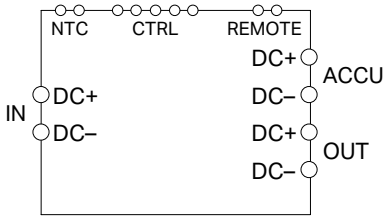
UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; LineMonitor; Communication capability		
	Item No.	PU
	787-875	1

Features:

- Charger and controller for uninterruptible power supply (UPS)
- Current and voltage monitoring, as well as parameter setting via LCD and RS-232 interface
- Active signal outputs for function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery control (from manufacturing no. 215563) detects both battery life and battery type

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 29 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.1 A (no load); ≤ 1.5 A (charging); ≤ 21.5 A
Inrush current	≤ 4 A (no load)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20 … 25.5 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Current limitation	1.1 … 1.3 x $I_{o\,nom}$ (typ.)
Energy storage system	
Buffer time	10 s … 10 min or constant; adjustable
Switch-on threshold (adjustable)	20 … 25.5 VDC
Charging current	≤ 1 A
End-of-charge voltage	26 … 29.5 VDC (temperature-controlled; optional fixed setting)
Recommended battery module	787-871, 787-872, 787-873
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Warning LED (yellow); 1 x Error LED (red); LCD; 1 x RS-232 interface
Operation status indicator	Green LED (U_o); Yellow LED (warning); Red LED (error);
Communication	RS-232 serial interface
Remote input	Switching buffer mode off
Efficiency/power losses	
Power loss P_l	≤ 15 W; ≤ 30 W (nominal load)
Efficiency (typ.)	95 %
Circuit protection	
Internal fuse	T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel operation	Yes, max. 3 battery modules for buffer time extension (temperature measurement evaluation is only possible via one battery module)
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 0.5 mm² / 0.08 … 0.5 mm² / 28 … 20 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	57 x 171 x 163; Height with connector
Mounting type	DIN-35 rail
Weight	1200 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 40 A output current
787 Series



UPS charger and controller; 24 VDC input voltage; 24 VDC output voltage; 40 A output current

Item No.	PU
787-915	1

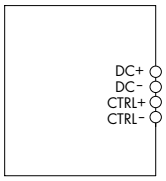
Features:
- DC UPS module for uninterruptible power supply (UPS)
- Potential-free contacts provide function monitoring
- Remote input for buffered output deactivation
- Input for temperature control of connected battery
- Battery internal resistance measurement for diagnosing batteries, including the connection cable and fuse

Safety information:
For North America: Use only batteries with appropriate safety approvals!

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	22 … 28 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.16 A (no load); ≤ 4 A (charging); ≤ 44 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i (rated operation); 19.5 … 26.5 VDC (battery voltage in buffer mode)
Nominal output current $I_{o\,nom}$	40 A
Energy storage system	
Buffer time	load-dependent
Switch-on threshold (adjustable)	21.5 … 22.5 VDC
Charging current	1 … 4 A (adjustable in 1 A steps via DIP switch; Default setting: 2 A)
End-of-charge voltage	26.4 … 29 VDC (temperature controlled with NTC; without temperature sensor: 27.2 VDC)
Recommended battery module	Typ: VRLA 24 V; 7 … 40 Ah
Signaling and communication	
Signaling	1 x Power LED (green); 1 x UPS LED (yellow); 1 x Warning LED (red);
Operation status indicator	Green LED (operation); Red LED (warning)
Remote input	Switching buffer mode off
Efficiency/power losses	
Power loss P_l	≤ 4 W; ≤ 22.5 W (nominal load)
Efficiency (typ.)	97 % (rated operation); 85 % (charging)
Circuit protection	
Internal fuse	T 6.3 A (charging circuit)
Backup fusing (recommended)	T 50 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	No/No
MTBF	600,000 h (40 °C; per SN 29500)
Ambient temperature (operation at U_N)	0 … +50 °C
Ambient temperature (storage)	-20 … +55 °C
Relative humidity	5 … 95 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	68 x 181 x 162
Mounting type	DIN-35 rail
Weight	1100 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61000-6-2; EN 61000-6-3
Standards/specifications (pending)	CSA

Lead-acid AGM battery module; 24 VDC input voltage; 5 A output current; Capacity: 0.8 Ah; with battery control

787 Series



Lead-acid AGM battery module; 24 VDC input voltage; 5 A output current; Capacity: 0.8 Ah; with battery control

	Item No.	PU
	787-1671	1

Features:
- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870/875 UPS Charger/ Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- DIN-35-rail mountable
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

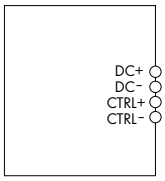
Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current Io nom	5 A
Energy storage system	
Battery capacity	0.8 Ah
Charging current	0.2 A (recommended)
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	T 10 A / 250 VAC
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-15 … +40 °C (-20 … +40 °C (during discharge))
Ambient temperature (storage)	-20 … +40 °C
Relative humidity	5 … 80 % (no condensation permissible)
Connection data	
Connection type	Input/Output/Battery control
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	72 x 97 x 124
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201
Standards/specifications (pending)	UL 508

Lead-acid AGM battery module; 24 VDC input voltage; 7.5 A output current; 1.2 Ah capacity; with battery control

787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 7.5 A output current; 1.2 Ah capacity; with battery control

	Item No.	PU
	787-876	1

Features:

- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870 UPS Charger and Controller and 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- DIN-35-rail mountable
- Battery control (from manufacturing no. 216570) detects both battery life and battery type

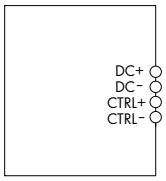
Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	7.5 A
Energy storage system	
Battery capacity	1.2 Ah
Charging current	≤ 0.3 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	T 15 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-10 … +40 °C
Ambient temperature (storage)	-20 … +40 °C
Relative humidity	5 … 80 % (no condensation permissible)
Connection data	
Connection type	Input/Output/Battery control
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	55 x 153 x 126.6; Height with connector
Mounting type	DIN-35 rail
Weight	1980 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	VdS-tested battery; UL 508

Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control

787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 20 A output current; 3.2 Ah capacity; with battery control

Item No.	PU
787-871	1

Features:

- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870 or 787-875 UPS Charger and Controller, as well as to the 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate via continuous
- carrier rail
- Battery-Control (from manufacturing no. 213987) detects both battery life and battery type

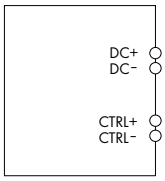
Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	20 A
Energy storage system	
Battery capacity	3.2 Ah
Charging current	≤ 0.8 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-10 … +40 °C
Ambient temperature (storage)	-20 … +40 °C
Relative humidity	5 … 80 % (no condensation permissible)
Connection data	
Connection type 1	Input/Output/Battery control
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	76.2 x 168 x 175.5
Mounting type	Screw mount
Weight	3079 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	VdS-tested battery; UL 508

Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control

787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 7 Ah capacity; with battery control		
	Item No.	PU
	787-872	1

Features:

- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870 or 787-875 UPS Charger and Controller, as well as to the 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate installation via continuous DIN-rail
- Battery control (from manufacturing no. 213987) detects both battery life and battery type

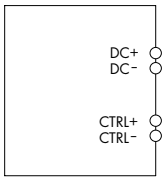
Note:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy storage system	
Battery capacity	7 Ah
Charging current	≤ 1.8 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	2 x T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-10 … +40 °C
Ambient temperature (storage)	-20 … +40 °C
Relative humidity	5 … 80 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	86 x 239 x 217.5
Mounting type	Screw mount
Weight	6500 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	VdS-tested battery; UL 508

Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 12 Ah capacity; with battery control

787 Series

Similar to pictured device



Lead-acid AGM battery module; 24 VDC input voltage; 40 A output current; 12 Ah capacity; with battery control

	Item No.	PU
	787-873	1

Features:

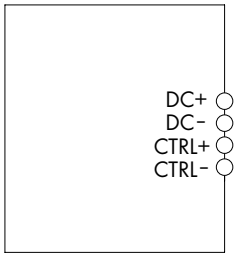
- Lead-acid, absorbed glass mat (AGM) battery module for uninterruptible power supply (UPS)
- Can be connected to both 787-870 or 787-875 UPS Charger and Controller, as well as to the 787-1675 Power Supply with integrated UPS charger and controller
- Parallel operation provides higher buffer time
- Built-in temperature sensor
- Mounting plate installation via continuous DIN-rail
- Battery control (from manufacturing no. 213412) detects both battery life and battery type

Hinweis:
For parallel connection, please switch battery capacity setting to “OFF” in the UPS charger and controller.

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy storage system	
Battery capacity	12 Ah
Charging current	≤ 3 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	2 x T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Series operation	No
MTBF	> 500,000 h (per IEC 61709)
Service life (typ.)	5 / 4 / 2 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-10 … +40 °C
Ambient temperature (storage)	-20 … +40 °C
Relative humidity	5 … 80 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m (Input, Output, Battery Control)
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	120.5 x 239 x 217.5
Mounting type	Screw mount
Weight	10650 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	VdS-tested battery; UL 508

Pure lead battery module; 24 VDC input voltage; 20 A output current; Capacity: 2.5 Ah; with battery control

787 Series



Pure Lead Battery module; 24 VDC input voltage; 20 A output current; Capacity: 2.5 Ah; with battery control

Item No.	PU
787-878/000-2500	1

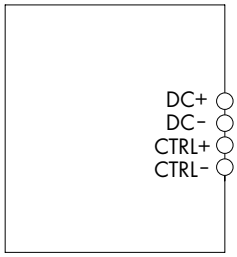
Features:

- Pure lead battery module: 12 x CYCLON battery (D cell) per module
- Various mounting options
- Intelligent battery management (battery control)
- Optional coated PCB
- Pluggable connection technology (WAGO MULTI CONNECTION SYSTEM)

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	20 A
Energy storage system	
Battery capacity	2.5 Ah
Charging current	≤ 5 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Overvoltage category	I
Pollution degree	2
Parallel operation	Yes
Service life (typ.)	15 / 8 / 4 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-40 … +60 °C
Ambient temperature (storage)	-40 … +60 °C
Relative humidity	5 … 80 % (no condensation permissible)
Self-discharge	3 % per month at 20 °C
Commissioning	6 months at 30 … 40 °C
Connection data	
Connection type	Input/Output/Battery control
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	86 x 186 x 160
Mounting type	Direct screw connection; Optional DIN-rail mount (EN 60715)
Weight	3800 g
Standards and specifications	
Conformity marking	CE

Pure lead battery module; 24 VDC input voltage; 40 A output current; Capacity: 13 Ah; with battery control

787 Series



Pure Lead Battery module; 24 VDC input voltage; 40 A output current; Capacity: 13 Ah; with battery control

Item No.	PU
787-878/001-3000	1

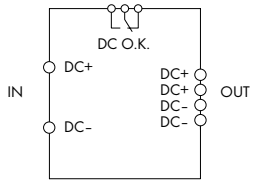
Features:

- Pure lead battery module: 2 x Genesis EPX battery per module
- Intelligent battery management (battery control)
- Optional coated PCB
- Pluggable connection technology (WAGO MULTI CONNECTION SYSTEM)

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Nominal output current $I_{o\,nom}$	40 A
Energy storage system	
Battery capacity	13 Ah
Charging current	≤ 5 A
End-of-charge voltage	27 VDC (25 °C)
Circuit protection	
Internal fuse	2 x T 25 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Overvoltage category	I
Pollution degree	2
Parallel operation	Yes
Service life (typ.)	15 / 8 / 4 a (20 / 30 / 40 °C)
Ambient temperature (operation at U_N)	-40 … +60 °C
Ambient temperature (storage)	-40 … +60 °C
Relative humidity	5 … 80 % (no condensation permissible)
Self-discharge	3 % per month at 20 °C
Commissioning	6 months at 30 … 40 °C
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Battery control (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Cable length (max.)	3 m
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	217 x 186 x 199.5
Mounting type	Direct screw connection
Weight	12300 g
Standards and specifications	
Conformity marking	CE

Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; 0.06 … 7.2 s buffer time; Communication capability

787 Series



Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 10 A output current; 0.06 … 7.2 s buffer time; Communication capability

	Item No.	PU
	787-880	1

Features:

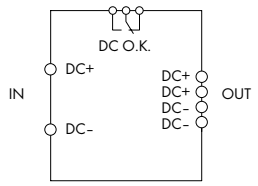
- Capacitive buffer module bridges short duration voltage drops or load fluctuations
- For an uninterruptible power supply
- Internal diode between input and output enables operation with a decoupled output
- Buffer modules can be readily parallel-connected to increase buffer time or load current
- Potential-free contact for charge condition monitoring

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load); ≤ 1 A (charging); ≤ 11 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 0.5 VDC (rated operation); 20.4 … 24 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	10 A
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Energy storage system	
Buffer time	0.06 … 7.2 s depends on load current and switch-on threshold
Switch-on threshold (adjustable)	20 … 24 VDC
Charging time (typ.)	5 min
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Charge LED (yellow); 1 x DC not OK LED (red)
Operation status indicator	Green LED (U_o > 20 V); Yellow LED (charging); Red LED (U_o < 20 V)
Efficiency/power losses	
Power loss P_l	≤ 1.5 W; ≤ 6.5 W (nominal load)
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	Yes/No
MTBF	typ. 87,600 h (at 25 °C); typ. 30,500 h (at 40 °C)
Ambient temperature (operation at U_N)	-10 … +50 °C
Ambient temperature (storage)	-10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection type	Input/Output/Relay
Connection technology	CAGE CLAMP®
Solid/fine-stranded/AWG	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	57 x 163 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; 0.17 … 16.5 s buffer time; Communication capability

787 Series

Similar to pictured device



Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 20 A output current; 0.17 … 16.5 s buffer time; Communication capability

	Item No.	PU
	787-881	1

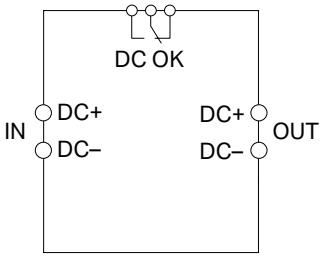
Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations.
- For an uninterruptible power supply
- Internal diode between input and output enables operation with a decoupled output.
- Buffer modules can be readily parallel-connected to increase buffer time or load current.
- Potential-free contact for charge condition monitoring

Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	20 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load); ≤ 1 A (charging); ≤ 22 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 1 VDC (rated operation); 20.4 … 24 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	20 A
Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Energy storage system	
Buffer time	0.17 … 16.5 s depends on load current and switch-on threshold
Switch-on threshold (adjustable)	20 … 24 VDC
Charging time (typ.)	5 min
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x Charge LED (yellow); 1 x DC not OK LED (red)
Operation status indicator	Green LED (U_o > 20 V); Yellow LED (charging); Red LED (U_o < 20 V)
Efficiency/power losses	
Power loss P_l	≤ 1.5 W; ≤ 15 W (nominal load)
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	Yes/No
MTBF	typ. 87,600 h (at 25 °C); typ. 30,500 h (at 40 °C)
Ambient temperature (operation at U_N)	-10 … +50 °C
Ambient temperature (storage)	-10 … +60 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection technology	CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	57 x 181 x 179; Height with connector
Mounting type	DIN-35 rail
Weight	1000 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 … 6.6 s

787 Series



Capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 … 6.6 s

	Item No.	PU
	787-916	1

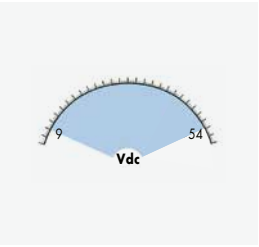
Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations.
- Internal diode between input and output enables operation with a decoupled output.
- Potential-free contact for charge condition monitoring

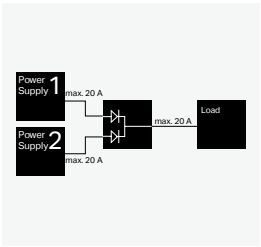
Input	
Nominal input voltage $U_{i\,nom}$	24 VDC
Input voltage range	23 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (no load); ≤ 0.8 A (charging); ≤ 40.8 A
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	U_i – 0.5 VDC (mains operation; I_o = 20 A); U_i - 0.8 VDC (mains operation; I_o = 40 A); 20 … 29 VDC (buffer mode)
Nominal output current $I_{o\,nom}$	40 A
Energy storage system	
Buffer time	0.3 … 6.6 s depends on load current and temperature
Switch-on threshold (typ.)	22 VDC
Nominal capacity	4.17
Nominal voltage	32.4 V
Effective energy content (typ.)	500
Charging time (typ.)	2.5 min
Signaling and communication	
Signaling	1 x LED DC OK (green); 1 x UPS LED (yellow); 1 x Warning LED (red)
Operation status indicator	Green LED (DC OK); Yellow LED (buffer mode/charging); Red LED (warning)
Efficiency/power losses	
Power loss P_l	≤ 1.9 W (operation without decoupled output); ≤ 11.5 W (operation with uncoupled output; I_o = 20 A); ≤ 33.5 W (operation with uncoupled output; I_o = 40 A)
Efficiency (typ.)	96.5 %
Circuit protection	
Internal fuse	No
Backup fusing (recommended)	T 40 A
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	No/No
Service life	74,000 h (25 °C; I_a = 40 A); 28,200 h (40 °C; I_a = 40 A)
Ambient temperature (operation at U_N)	-10 … +50 °C
Ambient temperature (storage)	-10 … +60 °C
Relative humidity	5 … 95 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.75 … 16 mm² / 0.75 … 25 mm² / 18 … 4 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	68 x 181 x 162
Mounting type	DIN-35 rail
Weight	900 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1; EN 61000-6-2; EN 61000-6-3
Standards/specifications (pending)	CSA

WAGO Redundancy Modules

WAGO Redundancy Modules



Highly Versatile
- The diode redundancy modules (787-783 and -785) can be used for the 12 V, 15 V, 24 V, or 48 V power supplies thanks to their wide voltage range



High Overload Capability
- Power diodes in each input path feature a high overload capacity and are also suitable for power supplies with TopBoost or PowerBoost
- Output currents up to 76 A thanks to parallel connection of the input paths

Signaling
- Three LEDs indicate the presence of an input or output voltage
- An isolated signal contact optionally indicates a power supply failure on the input*

*only for 787-885 and -886

Low Power Dissipation
- Low power dissipation via active-switching MOSFETs*
- Includes MOSFET function monitoring*

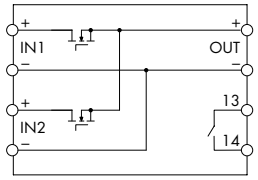
*only for 787-1685

7

Redundancy module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current

787 Series

Simliar to pictured device



Redundancy module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current

	Item No.	PU
	787-1685	1

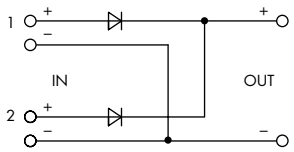
Features:

- Redundancy module with low-loss MOFSET decouples two power supplies.
- For redundant and fail-safe power supply
- Continuous output current: 40 ADC, in any ratio of both inputs (e.g., 20 A / 20 A or 0 A / 40 A)
- Suitable for power supplies with PowerBoost and TopBoost
- Same profile as CLASSIC Power Supplies
- Electrically isolated output voltage (SELV/PELV) per EN 61140/UL 60950-1

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 10 … 36 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 40 A (in total)
PowerBoost input	60 ADC (4 s); 50 ADC (8 s)
TopBoost input	100 ADC (50 ms)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	10 … 36 VDC (U_e – voltage drop)
Voltage drop	≤ 100 mV (Input/output)
Nominal output current $I_{o\,nom}$	40 A (redundancy operation); 40 A (parallel operation)
Nominal output power	960 W
Switching frequency	5 kHz
PowerBoost	120 ADC (4 s); 100 ADC (8 s)
TopBoost	200 ADC (50 ms)
Signaling and communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x DC OK signal contact (IN1 and IN2 > 10 VDC)
Operation status indicator	2 x Green LED (U_o > 10 VDC)
Efficiency/power losses	
Power loss P_l	≤ 1.5 W; ≤ 9.5 W (nominal load)
Efficiency (typ.)	99.5 %
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	Yes/No
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Derating	-1.5 %/K (> 65 °C)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Signaling (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	42 x 127 x 139.5
Mounting type	DIN-35 rail
Weight	450 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1; EN 61010-2-201; EN 61000-6-2; EN 61000-6-3; UL 60950; UL 508; DNV; EN 61140

Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 12.5 A input current; 9 … 54 VDC output voltage; 25 A output current

787 Series



Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 12.5 A input current; 9 … 54 VDC output voltage; 25 A output current

	Item No.	PU
	787-783	1

Features:

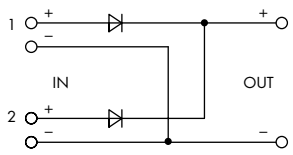
- Redundancy module with two inputs decouples two power supplies.
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current Ii	≤ 12.5 A (per path); ≤ 25 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_e – voltage drop)
Voltage drop	≤ 0.8 V (input/output)
Nominal output current $I_{o\,nom}$	12.5 A (redundancy operation); 25 A (parallel operation)
Nominal output power	600 W
Signaling and communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Operation status indicator	2 x Green LED (U_i > 7.5 VDC); 1 x Green LED (U_o > 7.5 VDC)
Efficiency/power losses	
Power loss P_l	≤ 19 W (nominal load)
Efficiency (typ.)	96 %
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Overvoltage protection; secondary	No
Short-circuit-protected/open-circuit-proof	No/Yes
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (55 °C < T_u ≤ 70 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² /0.5 … 6 mm² / 20 … 10 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	50 x 130 x 92
Mounting type	DIN-35 rail
Weight	470 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 508

Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 12.5 A input current; 9 … 54 VDC output voltage; 25 A output current

787 Series

Simliar to pictured device



Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 12.5 A input current; 9 … 54 VDC output voltage; 25 A output current

	Item No.	PU
	787-783/000-040	1

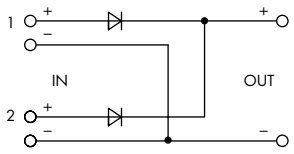
Features:

- Redundancy module with two inputs decouples two power supplies.
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current Ii	≤ 12.5 A (per path); ≤ 25 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_e – voltage drop)
Voltage drop	≤ 0.8 V (Input/output)
Nominal output current $I_{o\,nom}$	12.5 A (redundancy operation); 25 A (parallel operation)
Nominal output power	600 W
Signaling and communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Operation status indicator	2 x Green LED (U_i > 7.5 VDC); 1 x Green LED (U_o > 7.5 VDC)
Efficiency/power losses	
Power loss P_l	≤ 19 W (nominal load)
Efficiency (typ.)	96 %
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Overvoltage protection; secondary	No
Short-circuit-protected/open-circuit-proof	No/Yes
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (55 °C < T_u ≤ 70 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 6 mm² /0.5 … 6 mm² / 20 … 10 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	50 x 130 x 92
Mounting type	DIN-35 rail
Weight	470 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 508; ATEX; IEC Ex; ANSI/ISA 12.12.01 (Class I Div. 2)

Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 40 A input current; 9 … 54 VDC output voltage; 76 A output current

787 Series



Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 40 A input current; 9 … 54 VDC output voltage; 76 A output current

	Item No.	PU
	787-785	1

Features:

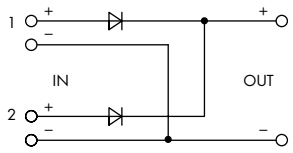
- Redundancy module with two inputs decouples two power supplies.
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_e – voltage drop)
Voltage drop	≤ 500 mV (input/output)
Nominal output current $I_{o\,nom}$	40 A (redundancy operation); 65 A (parallel operation [UL]); 76 A (parallel operation)
Nominal output power	1824 W
Signaling and communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Operation status indicator	2 x Green LED (U_i > 7.5 VDC); 1 x Green LED (U_o > 7.5 VDC)
Efficiency/power losses	
Power loss P_l	≤ 38 W (nominal load)
Efficiency (typ.)	97 %
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Overvoltage protection; secondary	No
Short-circuit-protected/open-circuit-proof	No/Yes
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (55 °C < T_u ≤ 70 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	83 x 130 x 153
Mounting type	DIN-35 rail
Weight	960 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 508

Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 40 A input current; 9 … 54 VDC output voltage; 76 A output current

787 Series

Simliar to pictured device



Redundancy module; 2 x 9 … 54 VDC input voltage; 2 x 40 A input current; 9 … 54 VDC output voltage; 76 A output current

	Item No.	PU
	787-785/000-040	1

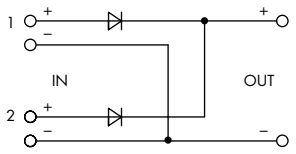
Features:

- Redundancy module with two inputs decouples two power supplies.
- For redundant and fail-safe power supply
- With LED for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_e – voltage drop)
Voltage drop	≤ 500 mV (Input/output)
Nominal output current $I_{o\,nom}$	40 A (redundancy operation); 65 A (parallel operation [UL]); 76 A (parallel operation)
Nominal output power	1824 W
Signaling and communication	
Signaling	1 x IN1 LED (green); 1 x IN2 LED (green); 1 x OUT LED (green)
Operation status indicator	2 x Green LED (U_i > 7.5 VDC); 1 x Green LED (U_o > 7.5 VDC)
Efficiency/power losses	
Power loss P_l	≤ 38 W (nominal load)
Efficiency (typ.)	97 %
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Pollution degree	2
Overvoltage protection; secondary	No
Short-circuit-protected/open-circuit-proof	No/Yes
Parallel/series operation	Yes/No
MTBF	> 10 million h (per IEC 61709)
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (55 °C < T_u ≤ 70 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)
Connection data	
Connection technology	Push-in CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	1.5 … 16 mm² / 1.5 … 16 mm² / 16 … 6 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	83 x 130 x 153
Mounting type	DIN-35 rail
Weight	960 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	UL 508; ATEX; IEC Ex; ANSI/ISA 12.12.01 (Class I Div. 2)

Redundancy module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; Communication capability

787 Series



Redundancy module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; Communication capability

	Item No.	PU
	787-885	1

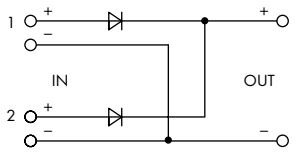
Features:

- Redundancy module with two inputs decouples two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 18 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 20 A (per path); ≤ 40 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	18 … 30 VDC (U_e – voltage drop)
Voltage drop	≤ 0.6 V (Input/output)
Nominal output current $I_{o\,nom}$	20 A (redundancy operation); 40 A (parallel operation)
Nominal output power	960 W
Signaling and communication	
Signaling	1 x OUT LED (green); 1 x IN1 LED (yellow); 1 x IN2 LED (yellow)
Operation status indicator	Green LED (U_o); 2 x Yellow LED (U_i)
Efficiency/power losses	
Power loss P_l	≤ 1.5 W; ≤ 14 W (24 VDC; 20 A); ≤ 26 W (48 VDC; 40 A)
Efficiency (typ.)	97 %
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®; CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	40x 181 x 163; Height with connector
Mounting type	DIN-35 rail
Weight	972 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; UL 60950; UL 508; EN 61000-6-2; EN 61000-6-3

Redundancy module; 2 x 48 VDC input voltage; 2 x 20 A input current; 48 VDC output voltage; 40 A output current; Communication capability

Serie 787



Redundancy module; 2 x 48 VDC input voltage; 2 x 20 A input current; 48 VDC output voltage; 40 A output current; Communication capability

	Item No.	PU
	787-886	1

Features:

- Redundancy module with two inputs decouples two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

Input	
Nominal input voltage $U_{i\,nom}$	2 x 48 VDC
Input voltage range	2 x 36 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 20 A (per path); ≤ 40 A (in total)
Output	
Nominal output voltage $U_{o\,nom}$	48 VDC
Output voltage range	36 … 54 VDC (U_e – voltage drop)
Voltage drop	≤ 1 V (Input/output)
Nominal output current $I_{o\,nom}$	20 A (redundancy operation); 40 A (parallel operation)
Nominal output power	1920 W
Signaling and communication	
Signaling	1 x OUT LED (green); 1 x IN1 LED (yellow); 1 x IN2 LED (yellow)
Operation status indicator	Green LED (U_o); 2 x Yellow LED (U_i)
Efficiency/power losses	
Power loss P_l	≤ 1.7 W (48 VDC; no load); ≤ 20 W (48 VDC; 20 A); ≤ 40 W (48 VDC; 40 A)
Efficiency (typ.)	96 %
Circuit protection	
Internal fuse	No
Safety and protection/Environmental requirements	
Protection class/Protection type	III / IP20; per EN 60529
Reverse voltage protection	Yes
Pollution degree	2
Parallel/series operation	Yes/Yes
MTBF	> 500,000 h (per IEC 61709)
Ambient temperature (operation at U_N)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)
Connection data	
Connection technology	Push-in CAGE CLAMP®/CAGE CLAMP®
Input/Output (solid/fine-stranded/AWG)	0.5 … 10 mm² / 0.5 … 10 mm² / 20 … 8 AWG
Relay (solid/fine-stranded/AWG)	0.08 … 2.5 mm² / 0.08 … 2.5 mm² / 28 … 12 AWG
Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail [mm]	40 x 181 x 163; Height with connector
Mounting type	DIN-35 rail
Weight	860 g
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 60950; EN 61000-6-2; EN 61000-6-3
Standards/specifications (pending)	UL 60950; UL 508

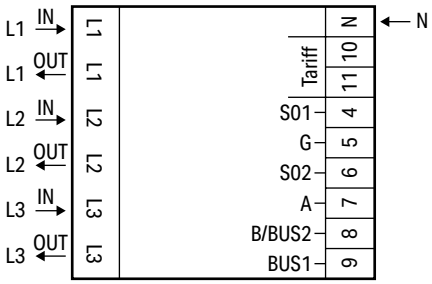
WAGO Energy Measurement Technology

WAGO Energy Measurement Technology

8

Energy meter (MID); for direct connection; 65 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 4PU

879 Series

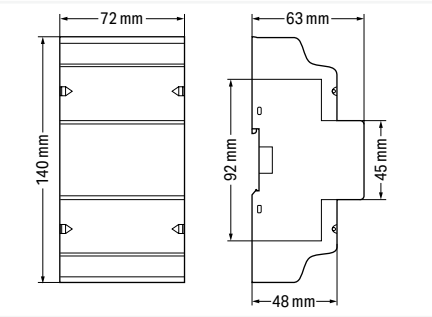


Energy meter (MID); for direct connection; 65 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 4PU

	Item No.	PU
	879-3000	1

Short description:
Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. The devices have a width of just 72 mm for direct measurement. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:
- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 72 mm wide (4PU)
- The communications pro: M-Bus/Modbus® interface and two S0 pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via Bluetooth®



Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*

Input	
Input signal type	Voltage; Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage $U_{i\,nom}$	3 x 230 … 400 VAC
Input voltage range	±20 %
Reference current I_{ref}	5 A
Input current I_i	≤ 65 A
Frequency range	45 … 60 Hz

Communication	
Communication	Modbus®; M-Bus; Bluetooth®
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC
Indicators	LCD with backlight

Signal processing	
Measured variables (calculated)	Active and reactive energy in supply and reference direction
Measurement type (load profile)	No

Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Supply	
Power supply type	Via measurement circuit
Power consumption $P_{max.}$ (phase; active power)	2 W
Power consumption $P_{max.}$ (phase; apparent power)	10 VA

Safety and protection	
Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 µs)	6 kV
Pollution degree	2
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)
Protection class	II

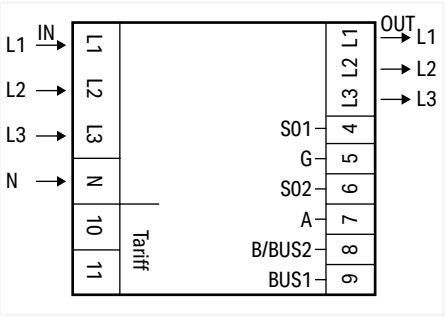
Connection data	
Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2616 Series
Actuation type	Lever
Solid conductor	0.75 … 16 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
Strip length	18 … 20 mm / 0.71 … 0.79 inches
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inches

Physical data	
Width	72 mm / 2.835 inches
Height	140 mm / 5.512 inches
Depth	63 mm / 2.48 inches
Note (dimensions)	Height without cover: 92 mm

Mechanical data	
Mounting type	DIN-35 rail
Material data	
Housing material	PC 940A
Weight	280 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Relative humidity	≤ 75% (during storage ≤ 95 %)
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 50470-1/3; MID-compliant

Energy meter (MID); for direct connection; 65 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 4PS

879 Series

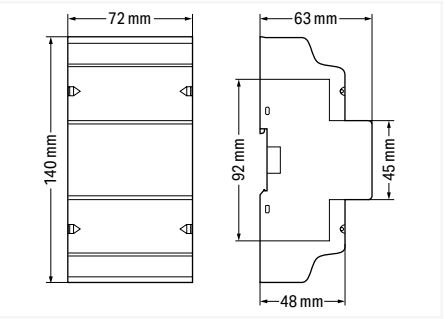


Energy meter (MID); for direct connection; 65 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 4PS

	Item No.	PU
	879-3020	1

Short description:
Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. The devices have a width of just 72 mm for direct measurement. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:
- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 72 mm wide (4PS)
- The communications pro: M-Bus/Modbus® interface and two S0 pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via Bluetooth®



Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*

Input	
Input signal type	Voltage; Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage $U_{i\,nom}$	3 x 230 … 400 VAC
Input voltage range	±20 %
Reference current I_{ref}	5 A
Input current I_i	≤ 65 A
Frequency range	45 … 60 Hz

Communication	
Communication	Modbus®; M-Bus; Bluetooth®
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC
Indicators	LCD with backlight

Signal processing	
Measured variables (calculated)	Active and reactive energy in supply and reference direction
Measurement type (load profile)	No

Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Supply	
Power supply type	Via measurement circuit
Power consumption $P_{max.}$ (phase; active power)	2 W
Power consumption $P_{max.}$ (phase; apparent power)	10 VA

Safety and protection	
Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 µs)	6 kV
Pollution degree	2
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)
Protection class	II

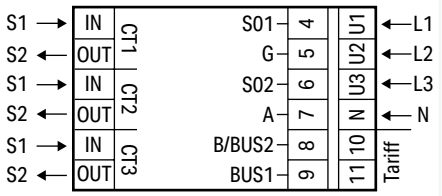
Connection data	
Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2616 Series
Actuation type	Lever
Solid conductor	0.75 … 16 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
Strip length	18 … 20 mm / 0.71 … 0.79 inches
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inches

Physical data	
Width	72 mm / 2.835 inches
Height	140 mm / 5.512 inches
Depth	63 mm / 2.48 inches
Note (dimensions)	Height without cover: 92 mm

Mechanical data	
Mounting type	DIN-35 rail
Material data	
Housing material	PC 940A
Weight	280 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Relative humidity	≤ 75% (during storage ≤ 95 %)
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 50470-1/3; MID-compliant

Energy meter (MID); for transformer connection; 1 A / 5 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 2PU CT

879 Series

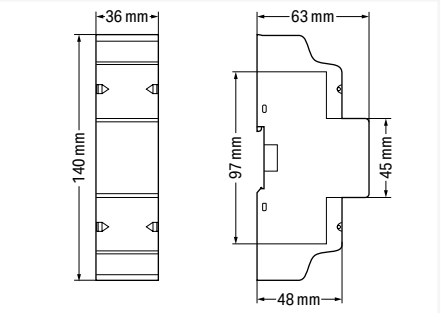


Energy meter (MID); for transformer connection; 1 A / 5 A; 3x230/400 V; 50 Hz; Modbus® and M-Bus; 2 x S0 interface; 2PU CT

	Item No.	PU
	879-3040	1

Short description:
Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. Versions for current transformers are even slimmer at only 35 mm. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:
- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 35 mm wide (2PUCT)
- Measurement of supply and purchase
- Energy measurement in four tariffs
- The communications pro: M-Bus/Modbus® interface and two S0 pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via Bluetooth®

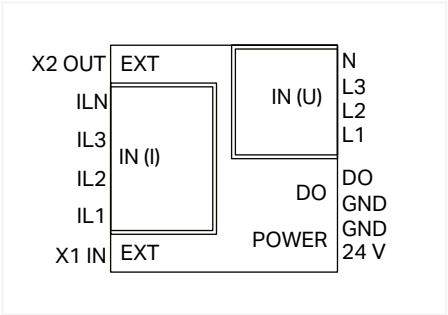


Configuration	
Configuration options	Touch-sensitive controls; Configuration app via *Bluetooth®*
Input	
Input signal type	Voltage; Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage $U_{I\,nom}$	3 x 230 … 400 VAC
Input voltage range	±20 %
Reference current I_{ref}	1 A
Input current I_i	≤ 5 A
Current transformer (secondary)	1 A; 5 A
Current transformer ratio	1:1 … 9999 : 1 / 5:5 … 9995 : 5
Frequency range	45 … 60 Hz
Communication	
Communication	Modbus®; M-Bus; Bluetooth®
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	230 VAC
Indicators	LCD with backlight
Signal processing	
Measured variables (calculated)	Active and reactive energy in supply and reference direction
Measurement type (load profile)	No
Measurement Error	
Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years
Supply	
Power supply type	Via measurement circuit
Power consumption $P_{max.}$ (phase; active power)	2 W
Power consumption $P_{max.}$ (phase; apparent power)	10 VA
Safety and protection	
Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 µs)	6 kV
Pollution degree	2
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)
Protection class	II
Connection data	
Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Actuation type	Lever
Solid conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 … 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 … 2.5 mm²
Strip length	9 … 11 mm / 0.35 … 0.43 inches
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 4 mm² / 24 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 2.5 mm²
Strip length 2	9 … 11 mm / 0.35 … 0.43 inches
Physical data	
Width	36 mm / 1.417 inches
Height	97 mm / 3.82 inches
Depth	63 mm / 2.48 inches
Note (dimensions)	Height with cover: 140 mm

Mechanical data	
Mounting type	DIN-35 rail
Material data	
Housing material	PC 940A
Weight	165 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Relative humidity	≤ 75% (during storage ≤ 95 %)
Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 50470-1/3; MID-compliant

3-Phase Power Measurement module; 3x277/480 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

2857 Series



3-Phase Power Measurement module; 3x277/480 V/1 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC		
	Item No.	PU
	2857-570/024-001	1

Short description:
WAGO's 3-Phase Power Measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level.

Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® interface. In addition, the measured variables can be stored on a microSD card.

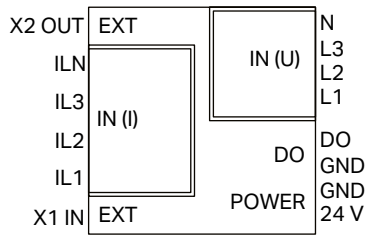
Features:
- Current measurement via 1A current transformer
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® interface
- Configurable digital signal output as pulse output

Configuration	
Configuration options	WAGO Interface Configuration Software
Input	
Input signal type	Voltage; Current; RTD sensors
Network configuration	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	277 VAC (U_{LN}); 480 VAC (U_{LL})
Input signal (current)	1 AAC (current transformer)
Frequency range	50 … 60 Hz (Harmonics analysis: 0 … 3.3 kHz)
Input resistance (current input)	22 mΩ
Input resistance (voltage input)	1.5 MΩ
Input current (max.)	1 AAC
Response threshold	10 mA
Resolution (current)	10 mA
Output – MODBUS	
Number of devices (max.)	32
Addressing	Via interface configuration software
Connector	2 x RJ-45 (daisy chain configuration)
Output – digital	
Switching voltage (DO) max.	Supply voltage applied
Continuous current (DO) max.	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Limit frequency	15.9 kHz
Type of memory card	WAGO 758-879/000-3102 (microSD; 2 GB)
Measurement Error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Power supply type	24 VDC
Nominal supply voltage U_S	24 VDC (SELV)
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 50 mA (+ I_{DO})
Safety and protection	
Rated voltage	600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Neutral conductors as part of the mains circuit, shall be considered hazardous live.
IL_x input requirement	Coils/converters with basic insulation
Protection type	IP20
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min

Connection data	
Connection type 1	Voltage
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Fine-stranded conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Strip length	10 … 11 mm / 0.39 … 0.43 inches
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inches
Connection type 3	Modbus® communication
Connector	2 x RJ-45 (daisy chain configuration)
Physical data	
Width	72 mm / 2.835 inches
Height	90 mm / 3.54 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	115.5 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/specifications	EN 61010-1

3-Phase Power Measurement module; 3x277/480 V/5 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

2857 Series



3-Phase Power Measurement module; 3x277/480 V/5 A; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

	Item No.	PU
	2857-570/024-005	1

Short description:
WAGO's 3-Phase Power Measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level.

Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® interface. In addition, the measured variables can be stored on a microSD card.

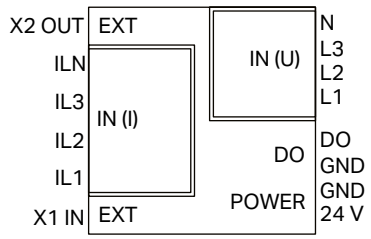
Features:
- Current measurement via 5A current transformer
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® interface
- Configurable digital signal output as pulse output

Configuration	
Configuration options	WAGO Interface Configuration Software
Input	
Input signal type	Voltage; Current; RTD sensors
Network configuration	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	277 VAC (U_{LN}); 480 VAC (U_{LL})
Input signal (current)	5 AAC (current transformer)
Frequency range	50 … 60 Hz (Harmonics analysis: 0 … 3.3 kHz)
Input resistance (current input)	5 mΩ
Input resistance (voltage input)	1.5 MΩ
Input current (max.)	5 AAC
Response threshold	5 mA
Resolution (current)	0.15 mA
Output – MODBUS	
Number of devices (max.)	32
Addressing	Via interface configuration software
Connector	2 x RJ-45 (daisy chain configuration)
Output – digital	
Switching voltage (DO) max.	Supply voltage applied
Continuous current (DO) max.	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Limit frequency	15.9 kHz
Type of memory card	WAGO 758-879/000-3102 (microSD; 2 GB)
Measurement Error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Power supply type	24 VDC
Nominal supply voltage U_S	24 VDC (SELV)
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 50 mA (+ I_{DO})
Safety and protection	
Rated voltage	600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Neutral conductors as part of the mains circuit, shall be considered hazardous live.
IL_x input requirement	Coils/converters with basic insulation
Protection type	IP20
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min

Connection data	
Connection type 1	Voltage
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Fine-stranded conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Strip length	10 … 11 mm / 0.39 … 0.43 inches
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inches
Connection type 3	Modbus® communication
Connector	2 x RJ-45 (daisy chain configuration)
Physical data	
Width	72 mm / 2.835 inches
Height	90 mm / 3.54 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	115.5 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/specifications	EN 61010-1

3-Phase Power Measurement module; 3x277/480 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

2857 Series



3-Phase Power Measurement module; 3x277/480 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

	Item No.	PU
	2857-570/024-000	1

Short description:
WAGO's 3-Phase Power Measurement module in a DIN-rail-mount enclosure measures electrical data in three-phase supply networks – remotely from the control level.

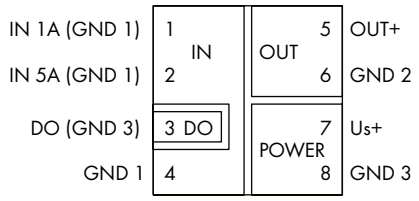
Measured variables such as active/apparent/reactive power, energy consumption, power factor, phase angle and frequency can be accessed via Modbus® interface. In addition, the measured variables can be stored on a microSD card.

Features:
- Current measurement via Rogowski Coils RC xxx
- Mobile measurement and storage of measured values on microSD card
- Configuration and display of measured values during operation via configuration interface
- Compact device in DIN-rail-mount enclosure saves space used for building technology
- Communication of measured values via Modbus® interface
- Configurable digital signal output as pulse output

Configuration	
Configuration options	WAGO Interface Configuration Software
Input	
Input signal type	Voltage; Current; RTD sensors
Network configuration	3-phase power measurement with N-conductor (4-conductor); 3-phase power measurement without N-conductor (3-conductor)
Input signal (voltage)	277 VAC (U_{LN}); 480 VAC (U_{LL}); 90 mVAC (WAGO Rogowski Coils RC xxx)
Sensitivity	22.5 mV/kA (WAGO Rogowski Coils RC xxx)
Measurement range (current)	4 x 4000 AAC (WAGO Rogowski Coils RC xxx)
Frequency range	50 … 60 Hz (Harmonics analysis: 0 … 3.3 kHz)
Output – MODBUS	
Number of devices (max.)	32
Addressing	Via interface configuration software
Connector	2 x RJ-45 (daisy chain configuration)
Output – digital	
Switching voltage (DO) max.	Supply voltage applied
Continuous current (DO) max.	100 mA (no internal restriction)
Configurable functions (DO)	Threshold value switch; Pulse output (S0 interface)
Communication	
Communication	Modbus® RTU
Interface	RS-485 (2-wire) via RJ-45
Number of devices (max.)	32
Addressing	Via interface configuration software
Signal processing	
Measurement method	True RMS measurement (measured value acquisition with 8 kHz)
Measured variables (calculated)	Line-to-line voltage; Outputs; Energy sources; Power factors; Mains frequency; Harmonics analysis (up to 41st harmonic); Total harmonic distortion (THD)
Limit frequency	15.9 kHz
Type of memory card	WAGO 758-879/000-3102 (microSD; 2 GB)
Measurement Error	
Transmission error (max.)	≤ 0.5 % for current and voltage (of the full scale value)
Supply	
Power supply type	24 VDC
Nominal supply voltage U_S	24 VDC (SELV)
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 50 mA (+ I_{DO})
Safety and protection	
Rated voltage	600 V
Overvoltage category	III
Pollution degree	2
Safe isolation	Input/supply and communication per EN 61010-1
Requirement (N input)	Neutral conductors as part of the mains circuit, shall be considered hazardous live.
IL_x input requirement	Coils/converters with basic insulation
Protection type	IP20
Test voltage (input/output/supply)	AC 3.51 kV; 50 Hz; 1 min
Connection data	
Connection type 1	Voltage
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 804 Series
Solid conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Fine-stranded conductor	0.25 … 2.5 mm² / 24 … 14 AWG
Strip length	10 … 11 mm / 0.39 … 0.43 inches
Connection type 2	Current/Power supply/DO
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 805 Series
Solid conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor 2	0.2 … 1.5 mm² / 24 … 16 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inches
Connection type 3	Modbus® communication
Connector	2 x RJ-45 (daisy chain configuration)

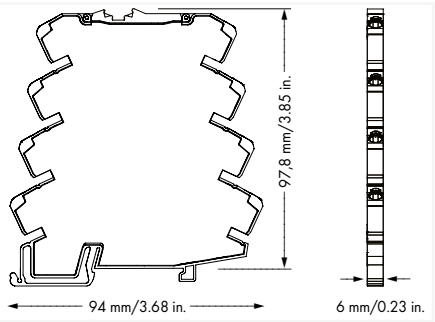
Physical data	
Width	72 mm / 2.835 inches
Height	90 mm / 3.54 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	117.5 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (non-condensing)
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-3
Standards/specifications	EN 61010-1

Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width
857 Series



Current signal conditioner; Current input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

Item No.	PU
857-550	1



Short description:
WAGO's current signal conditioner measures both 0 … 1 A and 0 … 5 A AC/DC currents, converting the input signal to an standard analog signal at the output.

Features:
- PC configuration interface
- True RMS measurement or arithmetic mean value
- Digital switching output (configurable switching th-resholds)
- Switchable filter function
- Calibrated measurement range switching
- 3-way electrical isolation with 2.5 kV test voltage
- Extremely fast response times
- Measurement range overflow indication

Note:
Additional setting options via WAGO Interface Configurati-on Software or WAGO Interface Configuration App

Configuration	
Configuration options	DIP switch; WAGO Interface Configuration Software; WAGO Interface Configuration App;
Input	
Input signal type	Current
Input signal (current)	0 … 1 AAC/ADC (IN 1); 0 … 5 AAC/ADC (IN 2)
Frequency range	16 … 400 Hz
Input resistance (current input)	47 mΩ (IN 1); 10 mΩ (IN 2)
Input current (max.)	10 A (IN 1; 5 s); 15 A (IN 2; 5 s)
Response threshold	2 mA (IN 1); 4 mA (IN 2)
Output – analog	
Output signal type	Current; Voltage
Output signal (voltage)	0 … 5 V; 1 … 5 V; 0 … 10 V; 2 … 10 V
Output signal (current)	0 … 10 mA; 2 … 10 mA; 0 … 20 mA; 4 … 20 mA
Load impedance (voltage output)	≥ 2 kΩ (temperature range restrictions may occur)
Load impedance (current output)	≤ 600 Ω (temperature range restrictions may occur)
Output – digital	
Switching voltage (DO) max.	Supply voltage applied
Number of switching thresholds (DO)	1 (adjustable)
Signal processing	
Measurement method	True RMS measurement; Arithmetic mean value
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	60 ms
Measurement Error	
Transmission error (typ.)	≤ 0.1 % of upper-range value
Transmission error (max.)	≤ 0.4 % of upper-range value
Temperature coefficient	≤ 0.01 %/K
Supply	
Power supply type	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 40 mA (+ I_{DO})
Safety and protection	
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches
Physical data	
Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	64 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C (at nominal current)
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	2000 m
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	EN 50121-3-2; DNV

» Configuration software Page 332
» Configuration app Page 333
» Accessories Page 344

857-550

DIP Switch Adjustability

● = ON **Default**

DIP Switch S1

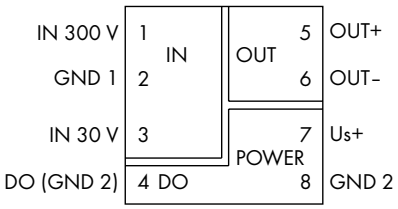
Input Signal		Measurement Method		Filter		Output Signal			
1		2		3		4	5	6	
	5 A		Mean square value		off				0 ... 20 mA
●	1 A	●	Arithmetic mean value	●	active		●		4 ... 20 mA
						●			0 ... 10 V
						●	●		2 ... 10 V
								●	0 ... 10 mA
							●	●	2 ... 10 mA
						●		●	0 ... 5 V
						●	●	●	1 ... 5 V

Filter:
The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

DIP Switch S1

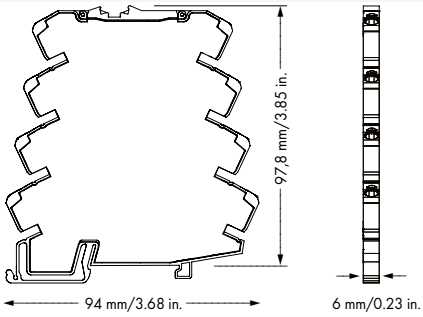
7	8	Measurement Range Underflow	Measurement Range Overflow	Overcurrent (Input Signal - End Value + 20%)	9	10	Digit Output DO Signaling
		Lower limit of measurement range -5 %*	Upper limit of measurement range +2.5 %*	Upper limit of measurement range +5 %*			DO not active
●		Lower limit of measurement range	Upper limit of measurement range +2.5 %	Upper limit of measurement range +5 %		●	DO U_s+ switching
	●	Lower limit of measurement range	Upper limit of measurement range	Lower limit of measurement range	●	●	DO GND switching
●	●	Lower limit of measurement range	Upper limit of measurement range	Upper limit of measurement range			*acc. to NAMUR NE 43

Voltage signal conditioner; Voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width
857 Series



Voltage signal conditioner; Voltage input signal; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

	Item No.	PU
	857-560	1



Short description:
WAGO's voltage signal conditioner measures AC/DC voltages up to 300 V, converting the input signal into a standard analog signal at the output.

Features:
- Two isolated measurement inputs for 30 and 300 V AC/DC
- RMS measurement or arithmetic mean value
- A digital signal output reacts to configured measurement range limits (on/off switching delay and threshold value switch function can be configured with up to two threshold values).
- Switchable filter function
- 3-way electrical isolation with 2.5 kV test voltage

» Configuration software Page 332
» Configuration app Page 333
» Accessories Page 344

Configuration	
Configuration options	DIP switch; WAGO Interface Configuration Software; WAGO Interface Configuration App
Input	
Input signal type	Voltage
Input signal (voltage)	300 VAC/VDC (IN 1); 30 VAC/VDC (IN 2)
Measurement frequency	AC 10 … 100 Hz
Frequency range	10 … 100 Hz (AC)
Input resistance (voltage input)	≥ 300 kΩ
Response threshold	300 mV (IN 1); 30 mV (IN 2)
Resolution (voltage)	30 mV (IN 1); 3 mV (IN 2)
Output – analog	
Output signal type	Current; Voltage
Output signal (voltage)	0 … 5 V; 1 … 5 V; 0 … 10 V; 2 … 10 V (can be inverted, also bipolar)
Output signal (current)	0 … 10 mA; 2 … 10 mA; 0 … 20 mA; 4 … 20 mA (can be inverted, also bipolar)
Load impedance (voltage output)	≥ 1 kΩ
Load impedance (current output)	≤ 600 Ω
Output – digital	
Switching voltage (DO) max.	Applied supply voltage
Number of switching thresholds (DO)	1 or 2 (adjustable)
Configurable rise/fall delay time (DO)	0 … 60 s (via software)
Signal processing	
Measurement method	RMS measurement; Arithmetic mean value
Limit frequency	2 kHz
Software filter (adjustable)	Moving average value (filter level: 30)
Step response (typ.)	30 ms
Measurement Error	
Transmission error (max.)	≤ 0.5 % (of the full scale value)
Temperature coefficient	≤ 0.01 %/K
Supply	
Power supply type	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 46 mA (+ I_{DO})
Safety and protection	
Rated voltage	300 V; 150 V (UL)
Measurement category per EN/UL 61010-2-030	CAT II (input)
Note on insulation parameters	Danger: Configuration via the service interface must only be performed with a voltage-free measurement input! The digital output (DO) is at the potential of the supply.
Protection type	IP20
Test voltage	
Test voltage (input/analog output/supply/service interface)	2.5 kVAC; 50 … 60 Hz; 1 min
Insulation parameters(UL)	
Overvoltage category	II
Pollution degree	2
Insulation type (input/analog output/supply/service interface)	Reinforced insulation (safe isolation)
Insulation parameters	
Overvoltage category	II
Pollution degree	2
Insulation type (input/analog output/supply/service interface)	Double insulation (impedance and basic insulation); Requirement: The GND 1 input is dangerous when active and the measurement is conducted as a low-side measurement!
Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Strip length	9 … 10 mm / 0.35 … 0.39 inches

Physical data	
Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	40 g
Environmental requirements	
Ambient temperature (operation at U_N)	-40 … +70 °C (at nominal current)
Ambient temperature (storage)	-40 … +85 °C
Temperature range of connection cable	≥ ($T_{ambient}$ + 10 K)
Temperature range of connection cable (UL)	80 °C
Relative humidity	5 … 95 % (no condensation permissible)
Operating altitude (max.)	2000 m
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2; EN 61326-2-3; EN 50121-3-2
EMC emission of interference	EN 61000-6-3; EN 61326-2-3; EN 50121-3-2
Standards/specifications	EN 50121-3-2; EN 61010-1; EN 61373

857-560

DIP Switch Adjustability

● = ON Default

DIP Switch S1

1	2	Input	3	Measurement Method	4	Filter
		300 V		Effective value (RMS)		off
	●	150 V	●	Arithmetic mean value (bipolar output)	●	active
●		30 V				
●	●	15 V				

DIP Switch S1

5	6	7	Output Signal Range (Bipolar for Arithmetic Mean Value)
			(+/-) 0 … 20 mA
	●		4 … 20 mA
●			(+/-) 0 … 10 V
●	●		2 … 10 V
		●	(+/-) 0 … 10 mA
	●	●	2 … 10 mA
●		●	(+/-) 0 … 5 V
●	●	●	1 … 5 V

DIP Switch S1

8	9	Measurement Range Underflow	Measurement Range Overflow	10	Digital Output DO/ Signaling
		Lower limit of measurement range -5 %*	Upper limit of measurement range +2.5 %*		DO V_s+ switching
●		Lower limit of measurement range	Upper limit of measurement range +2.5 %	●	DO GND switching
	●	Lower limit of measurement range	Upper limit of measurement range		
●	●	Lower limit of measurement range -5 %	Upper limit of measurement range +5 %		

*acc. to NAMUR NE 43

Filter
The filter function allows a low-pass filter to be switched on in order to mask or "smooth out" oscillating measured values (e.g., during trailing edge flows).

Digital Output DO/Signaling
The digital output (DO) signals error messages and can be configured as follows: 24 V → 0 V/0 V → 24 V.

Current signal conditioner; Current input signal: 140 ADC; Modbus RTU; Supply voltage: 24 VDC; module width: 35 mm

789 Series

Current signal conditioner; Current input signal: 140 ADC; Modbus RTU; Supply voltage: 24 VDC; module width: 35 mm

Item No.	PU
789-621	1

Short description:
WAGO's intelligent current sensor monitors solar plants or inverters for DC measurements within a large current measurement range. The sensor is mounted on DIN-35 rail.

Input	
Input signal type	Current
Input signal (current)	0 … 140 ADC
Resolution [bit]	15 bits
Output – MODBUS	
Number of devices (max.)	32
Connector	RJ-45
Bus length (max.)	1200 m
Terminating resistor	150 Ω (can be activated via DIP switch 1)
Communication	
Communication	Modbus® RTU
Interface	RS-485
Transmission channels	Half duplex; 8-bit data; 1 stop bit
Number of devices (max.)	32
Baud rate	19.2 kBd
Parity	Even
Terminating resistor	150 Ω (can be activated via DIP switch 1)
Measurement Error	
Transmission error (typ.)	≤ 0.5 % of upper-range value (0 … 80 A; at room temperature); ≤ 1 % of upper-range value (80 … 140 A; at room temperature)
Temperature coefficient	≤ 0.05 %/K (-20 … 60 °C); ≤ 0.1 %/K (60 … 70 °C)
Supply	
Nominal supply voltage U_S	24 VDC
Supply voltage range	12 … 34 VDC
Current consumption at nominal supply voltage	≤ 8 mA
Safety and protection	
Protection type	IP20
Connection data	
Feedthrough for measurement conductor	Ø 15 mm
Connector	RJ-45
Physical data	
Width	35 mm / 1.378 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	77.2 g
Environmental requirements	
Ambient temperature (operation at U_N)	-20 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DIN EN 50178

Accessories

Interface Module with RJ-45 Connector

Item No.	PU
289-965	1

Interface Module with RJ-45 Connector and Shield Clamping Saddle

Color	Item No.	PU
weiß	289-966	1

ETHERNET RJ-45 Connector

Item No.	PU
750-975	1

789-621

RJ-45-Connector Pin Assignment:

Pin	Function
1	Ub
2	
3	n.c.
4	A (Data+)
5	B (Data-)
6	n.c.
7	GND
8	

Communication Description:

Modbus® Function	Read Holding Registers (0x03)
Address of Measured Value	0x0004
Data Type Measurement	Integer

Error Numbers	
id	Description
01	Illegal Function
03	Illegal Data
101	Overflow (Current > +83 A)
102	Underflow (Current < -3 A)

DIP Switch Adjustability

● = ON

Adress	DIP Switch					Terminating Resistor	DIP Switch 1
	2	3	4	5	6	-	
1						150 Ohm	●
2					●		
3				●			
4				●	●		
5			●				
6			●		●		
7			●	●			
8			●	●	●		
9		●					
10		●			●		
11		●		●			
12		●		●	●		
13		●	●				
14		●	●		●		
15		●	●	●			
16		●	●	●	●		
17	●						
18	●				●		
19	●			●			
20	●			●	●		
21	●		●				
22	●		●		●		
23	●		●	●			
24	●		●	●	●		
25	●	●					
26	●	●			●		
27	●	●		●			
28	●	●		●	●		
29	●	●	●				
30	●	●	●		●		
31	●	●	●	●			
32	●	●	●	●	●		

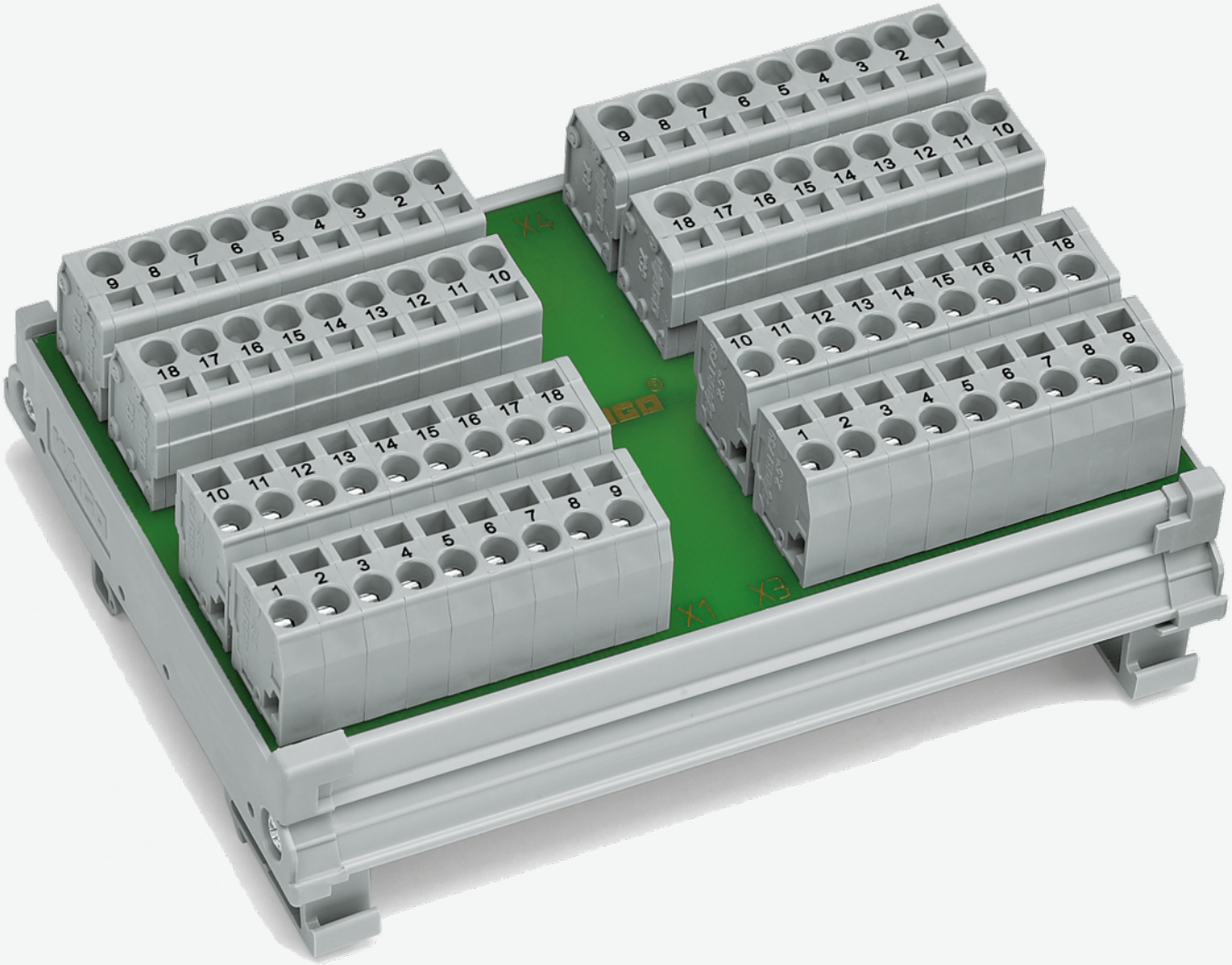
NOTICE:
Only set the Modbus® Adress in the OFF state.

Selection Guide: Current Transformers
The Right Solution for Every Application

Current Transformers 855 Series	Split-Core Current Transformers	Plug-In Current Transformers with CAGE CLAMP® Connection Technology
		
Application	Retrofit	New systems
Coil bobbin	Separable	Closed
Connection technology	Connection cable (color coded)	CAGE CLAMP®
Mounting	Round cable (insulated), copper current bar (insulated	Round cable, copper current bar, DIN-rail, mounting plate
Compatibility with other WAGO components	750-493, (750-493/000-001) 750-494, (750-494/000-001) 750-495, (750-495/000-001) 857-550, 2857-570/024-001 2857-570/024-005	
Primary rated current	60 … 1000 A	50 … 2500 A
Secondary rated current	1 A / 5 A	1 A / 5 A
Accuracy class	0.5; 1 or 3	1 or 3
Ambient temperature	–10 … +55 °C	–5 … +50 °C
Standards	EN 61869-2	EN 61869-2
Approvals	–	c UL us
Connection examples		

* In the measurement range between 0.8 and 32 A and in combination with WAGO's 3-Phase Power Measurement Modules, accuracy class 0.5 per EN 61869-2 is achieved.

Plug-In Current Transformers with *picoMAX*® Pluggable Connectors		Rogowski Coils RC 70 / RC 125 / RC 175	Current and Voltage Taps
			
New systems		Retrofit	New systems
Closed		Bayonet connector, separable	Closed
picoMAX®		Connectiono cable	Push-in CAGE CLAMP®
Round cable, copper current bar, mounting plate		Round cable, copper current bar	Jumper slot of the 285 series 2-Conductor Th-rough Teremin Blocks 285-150, 285-195, 285-1185, 285-141, 285-181, 285-1161
750-493,750-494 750-495, 857-550, 2857-570/024-001		750-495/000-002 857-552 2857-570/024-000	750-493 750-494 750-495 857-550 2857-570/024-001
32 A	35 / 64 A	Up to 4000 A	150 … 350 A
320 mA	1 A	22.5 mV/kA	1 A
0.5*	1	0.5	0.5
–10 … +55 °C		–40 … +80 °C	–25 … +70 °C
EN 61869-2		IEC 61010-1 / EN 61869-2	EN 61869-2, EN 60947-7-3, IEC 60068-2-6
–		UL listed	–
			



WAGO Potential Distribution

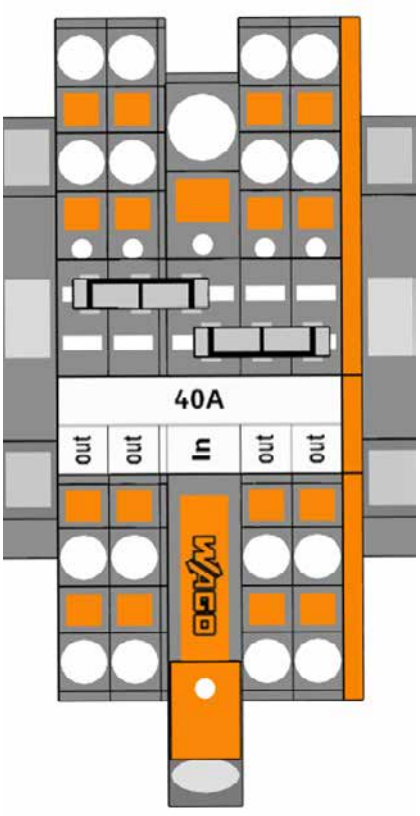
WAGO Potential Distribution

9

WAGO Potential Distribution Blocks

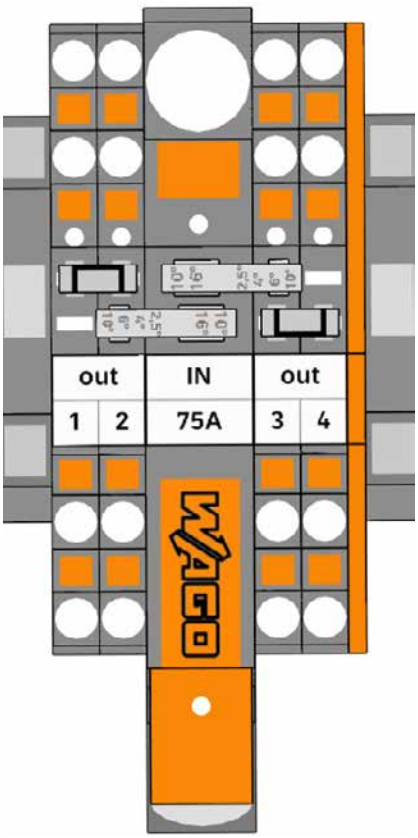
Potential distribution can be seamlessly implemented using WAGO's TOPJOB® S Rail-Mount Terminal Blocks with mixed conductor cross-sections. If required, jumpers can be used to easily provide additional connection points. Some standard setups are shown below. For more information on rail-mount terminal block operation and other accessories, visit www.wago.com.

Potential Distribution Blocks; 40 A



Part list:		
1x	2-conductor through terminal block; with lever and push-button; 6 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2106-5201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
2x	End and intermediate plate; 0.8 mm thick	2002-1491/2
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

Potential Distribution Blocks; 75 A

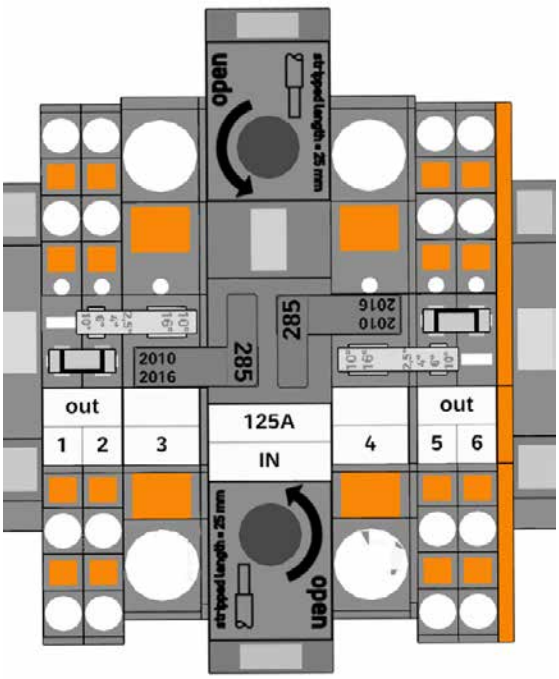


Part list:		
1x	2-conductor through terminal block; with lever and push-button; 16 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2116-5201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
1x	End and intermediate plate; 0.8 mm thick	2002-1492
2x	Step-down jumper; insulated; from 16/10 mm² to 10/6/4/2.5 mm²; Nominal current 57 A	2016-499
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

WAGO Potential Distribution Blocks

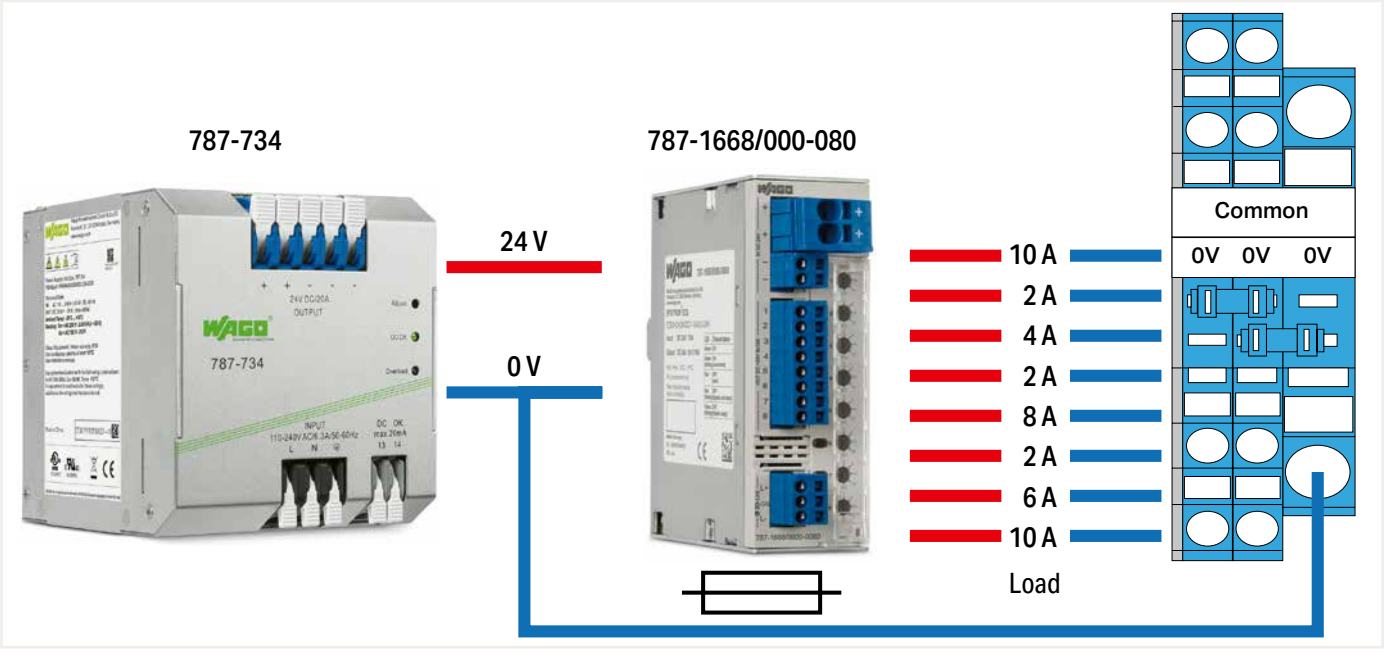
The setups and individual compilations below, e.g., with power supply and ECB can be easily created and documented via WAGO's Smart Designer Configuration Software (available at www.wago.com), and then ordered as a custom rail assembly.

Potential Distribution Blocks; 125 A

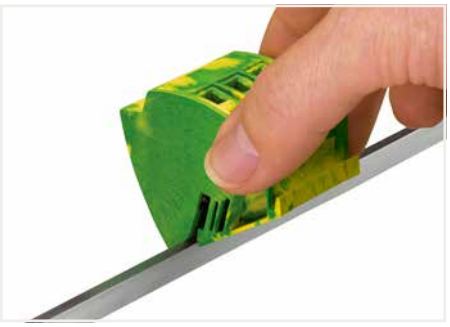


Part list:		
1x	2-conductor through terminal block; 35 mm²; lateral marker slots; only for DIN 35 x 15 rail; 2.3 mm thick; copper; POWER CAGE CLAMP	285-135
2x	2-conductor through terminal block; with push-button; 10 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2210-1201
4x	4-conductor through terminal block; with push-button; 2.5 mm²; with test port; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; Push-in CAGE CLAMP®	2202-1401
2x	End and intermediate plate; 1 mm thick	2020-1291
1x	End and intermediate plate; 1 mm thick	2020-1492
2x	Step-down jumper; insulated; from 285-13x to 2010 and 2016 Series TOPJOB® S terminal blocks; Nominal current 90 A	285-430
2x	Step-down jumper; insulated; from 16/10 mm² to 10/6/4/2.5 mm²; Nominal current 57 A	2016-499
2x	Push-in type jumper bar; insulated; 3-way; Nominal current 25 A	2002-403

Application example



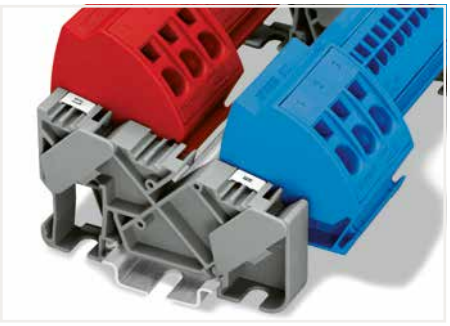
Busbar Terminal Blocks
812 Series
Description and Installation



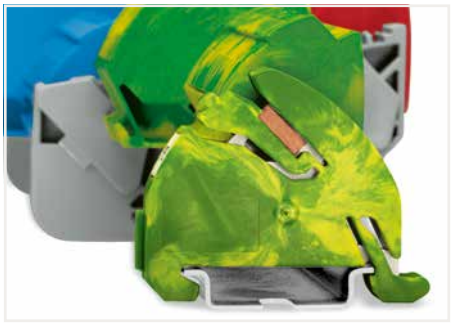
Snapping a ground busbar terminal block onto the N-busbar.

Unlock right and left positions to remove the ground busbar terminal block. Then pull up the block from the busbar.

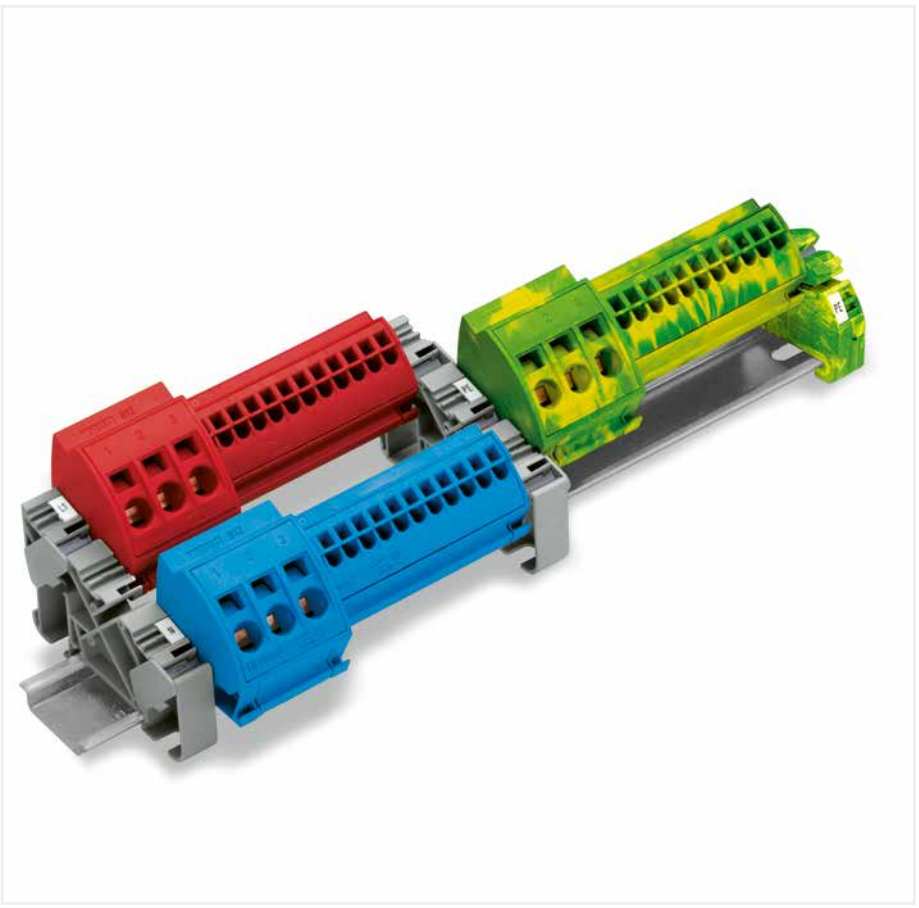
Using the 812 Series Busbar Terminal Blocks in switchgear cabinets and distribution boards permits simple and safe potential distribution on standard (10 x 3) mm busbars. Tool-free snapping of self-locking busbar terminal blocks onto the busbar enables quick and easy assembly, as well as subsequent extension. The busbar terminal blocks are available in two different versions for conductors ranging from 1.5 to 16 mm² (16–6 AWG).
Current carrying capacity: With a maximum total current of 96 A, the clamping units of the busbar terminal block can be loaded with the rated current of the conductor cross sections approved. This only applies when (10 x 3) mm busbars are used.



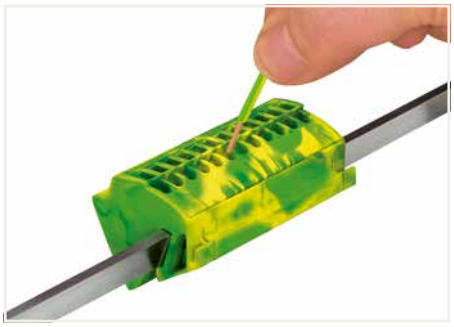
Busbar carrier (812-140):
Offers three receptacles for (10 x 3) mm busbars with locking device for easy mounting of the busbars. The carrier can be snapped onto the DIN-35 rail or screwed on a panel.



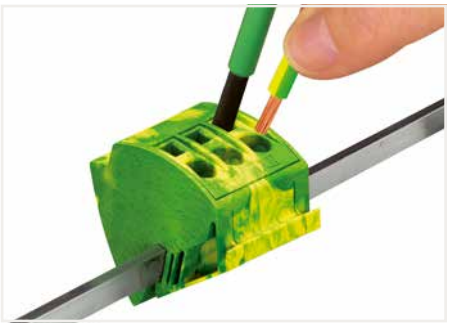
Ground busbar carrier (812-141):
Offers a receptacle with locking device for (10 x 3) mm busbar. Contact between the busbar and rail is made automatically by simply snapping the carrier onto the DIN-35 rail. One end of the busbar is mounted onto the ground busbar carrier, the other end is inserted into the middle position of the insulated busbar carrier.



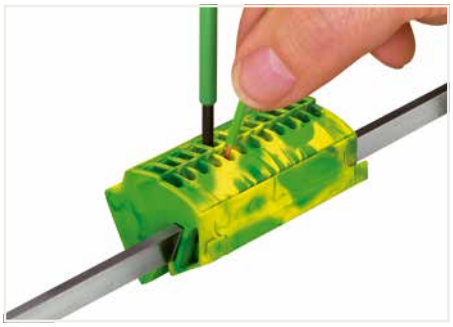
Mixed 4 mm² (12 AWG) and 16 mm² (6 AWG) busbar terminal blocks



Conductor termination (4 mm²/12 AWG):
With Push-in CAGE CLAMP®, solid conductors can be terminated by simply pushing them into the 12 x 4 mm² busbar terminal block, significantly reducing wiring time.



Conductor termination (16 mm²/6 AWG):
Open the clamping unit with an operating tool when terminating solid, stranded and fine-stranded conductors.

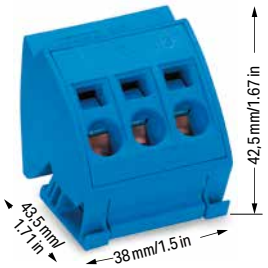


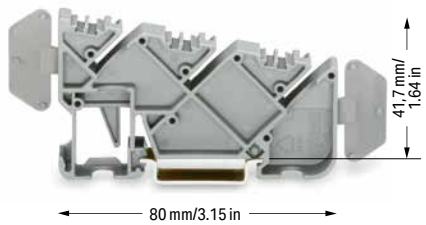
Conductor removal (4 mm²/12 AWG and 16 mm²/6 AWG):
Open the clamping unit using an operating tool.

Busbar Terminal Block
4 mm² and 16 mm²; 812 Series

Technical data	
0.5 … 4 mm²	20 … 12 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 75 mm / 2.953 inch	
11 mm / 0.43 inch	

Technical data	
1.5 … 16 mm²	14 … 6 AWG
1000 V/6 kV/3	600 V, 20 A
I_N 96 A	600 V, 95 A
Terminal block width: 38 mm / 1.496 inch	
12 mm / 0.47 inch	





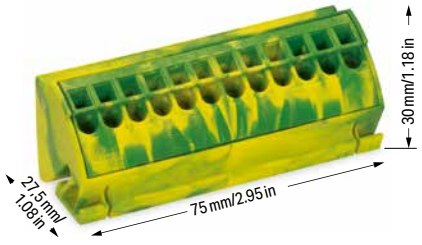
Busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection		
Color	Item No.	Pack. Unit
blue	812-104	10
light gray	812-101	10
dark gray	812-102	10
red	812-103	10

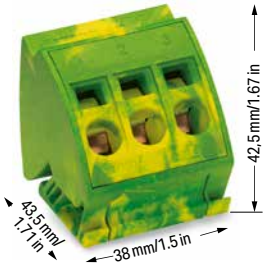
Accessories; item-specific			
Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm			
	I_N 140 A	210-133	1

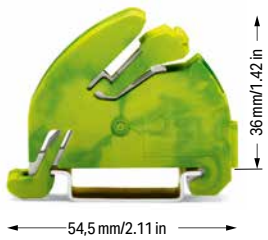
Busbar terminal block 16 mm²; with CAGE CLAMP® connection		
Color	Item No.	Pack. Unit
blue	812-114	12
light gray	812-111	12
dark gray	812-112	12
red	812-113	12

Accessories; item-specific			
Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm			
	I_N 140 A	210-133	1
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	284-400	100 (25)

Insulated busbar carrier; 12 mm wide		
Color	Item No.	Pack. Unit
gray	812-140	25







Ground busbar terminal block 4 mm²; with Push-in CAGE CLAMP® connection		
Color	Item No.	Pack. Unit
green-yellow	812-100	10

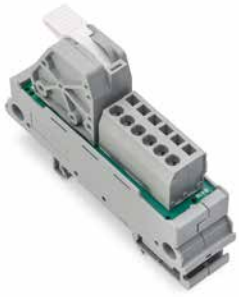
Accessories; item-specific			
Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm			
	I_N 140 A	210-133	1

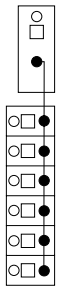
Ground busbar terminal block 16 mm²; with CAGE CLAMP® connection		
Color	Item No.	Pack. Unit
green-yellow	812-110	12

Accessories; item-specific			
Busbar; tin-plated; 1000 mm long; Copper (10 x 3) mm			
	I_N 140 A	210-133	1
Finger guard; touch-proof cover protects unused conductor entries			
	yellow	284-400	100 (25)

Ground busbar carrier; with DIN-35 rail contact; 11 mm wide		
Color	Item No.	Pack. Unit
green-yellow	812-141	25

Potential distribution module; 1 potential; with 1 input clamping point; Conductor cross-section up to 16 mm²; with lever; with 6 output clamping points; Conductor cross-section up to 2.5 mm²
830 Series



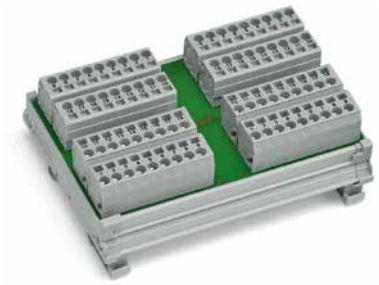


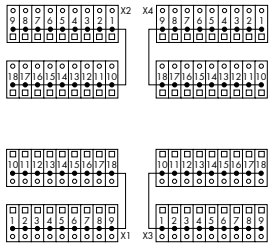
Color	Item No.	PU
gray	830-800/000-312	10
blue	830-800/000-312/000-006	10

Electrical data	
Operating voltage	≤ 250 VAC/VDC
Current per connection (max.)	12 A
Total current per potential (max.)	65 A
Connection data	
Total number of potentials	1
Connection type 1	Input
Connection technology	CAGE CLAMP®
Solid conductor	1.5 … 16 mm² / 16 … 6 AWG
Fine-stranded conductor	1.5 … 16 mm² / 16 … 6 AWG
Strip length	12 … 13 mm / 0.47 … 0.51 inches
Connection type 2	Output
Connection technology 2	CAGE CLAMP®
Solid conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length 2	8 … 9 mm / 0.31 … 0.35 inches
Physical data	
Width	21 mm / 0.81 inches
Height from upper-edge of DIN-rail	49 mm / 1.929 inches
Depth	85 mm / 3.35 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	57.8 g
Environmental requirements	
Ambient temperature (operation at U_N)	-20 … +50 °C
Relative humidity	95% (without condensation)
Standards and specifications	
Standards/specifications	cULus 61010-2-201

9

Potential distribution module; 4 potentials; with 18 connection points each
288 Series

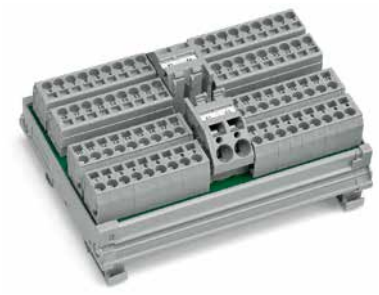


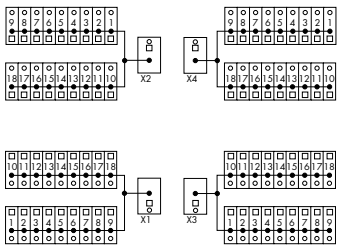


	Item No.	PU
	288-825	1

Electrical data	
Operating voltage	≤ 250 VAC/VDC
Current per connection (max.)	12 A
Total current per potential (max.)	12 A
Safety and protection	
Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	2
Connection data	
Total number of potentials	4
Connection technology	CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inches
Physical data	
Width	115 mm / 4.528 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	45 mm / 1.772 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	156.6 g
Environmental requirements	
Ambient temperature (operation at U_N)	-20 … +50 °C
Ambient temperature (storage)	-40 … +80 °C

Potential distribution module; 4 potentials; with 19 connection points each
288 Series





Item No.	PU
288-837	1

Electrical data	
Operating voltage	≤ 250 VAC/VDC
Current per connection (max.)	12 A
Total current per potential (max.)	32 A
Safety and protection	
Rated voltage	250 V
Rated surge voltage	4 kV
Pollution degree	2
Connection data	
Total number of potentials	4
Connection type 1	Power supply
Connection technology	CAGE CLAMP®
Solid conductor	0.2 … 6 mm² / 24 … 10 AWG
Fine-stranded conductor	0.2 … 6 mm² / 24 … 10 AWG
Strip length	11 … 12 mm / 0.43 … 0.47 inches
Connection type 2	Connection points
Connection technology 2	CAGE CLAMP®
Solid conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length 2	8 … 9 mm / 0.31 … 0.35 inches
Physical data	
Width	115 mm / 4.528 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	45 mm / 1.772 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	178.2 g
Environmental requirements	
Ambient temperature (operation at U_N)	-20 … +50 °C
Ambient temperature (storage)	-40 … +80 °C

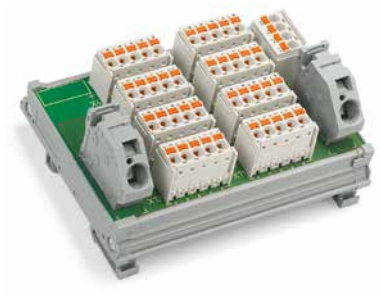
Accessories

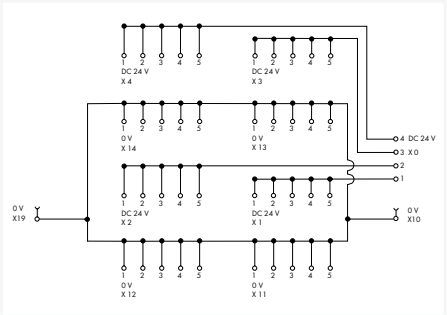
Comb-style jumper bar; 2-way

Item No.	PU
745-382	250 (50)

Potential distribution module; 4 potentials; with 6 connection points each; with 22 ground clamping points

288 Series





	Item No.	PU
	288-870/000-030	1

Features:

- May be used with electronic circuit breakers for 24 and 0 VDC power distribution, as a substitute for rail-mount terminal blocks
- Pre-wiring and electrical isolation of current paths via pluggable picoMAX® Female Headers
- Optional coding pins (2092-1610) protect against any inadvertent mixing of female headers
- Optional gripping plates with sliding connector release (2092-1601/002-000 or 2092-1602/002-000) provide conductor strain relief
- 0 V may be supplied to the adjancent modules via comb-style jumper bar (745-682)

Electrical data	
Nominal operating voltage	24 VDC
Current per connection (max.)	10 A
Total current per potential (max.)	10 A
Total current 0 V (max.)	40 A
Connection data	
Total number of potentials	4
Connection type 1	Power supply 0 V
Connection technology	CAGE CLAMP®
Solid conductor	0.2 … 16 mm² / 24 … 6 AWG
Fine-stranded conductor	0.2 … 16 mm² / 24 … 6 AWG
Strip length	12 … 13 mm / 0.47 … 0.51 inches
Connection type 2	Power supply 24 V; Connection points
Connection technology 2	Push-in CAGE CLAMP®
Solid conductor 2	0.2 … 2.5 mm² / 24 … 12 AWG
Fine-stranded conductor 2	0.2 … 2.5 mm² / 24 … 12 AWG
Strip length 2	9 … 10 mm / 0.35 … 0.39 inches
Physical data	
Width	100 mm / 3.937 inches
Height	85 mm / 3.346 inches
Depth from upper-edge of DIN-rail	49 mm / 1.929 inches
Mechanical data	
Mounting type	DIN-35 rail
Material data	
Weight	140.4 g
Environmental requirements	
Ambient temperature (operation at U_N)	-25 … +70 °C (without condensation)
Ambient temperature (storage)	-40 … +85 °C

Accessories

Comb-style jumper bar; 2-way

Item No.	PU
745-682	400 (50)

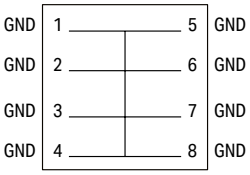
Coding pin carrier

Item No.	PU
2092-1610	100 (25)

Gripping plate with sliding connector release

Description	Item No.	PU
3- to 4-pole	2092-1601/002-000	100 (25)
5- to 8-pole	2092-1602/002-000	100 (25)

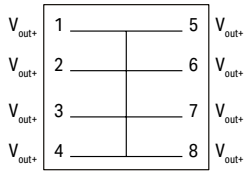
Potential distribution module; 8-way 0 VDC
787 Series



	Item No.	PU
	787-3861/000-1000	1

Electrical data	
Nominal operating voltage	24 VDC
Operating voltage	0 … 30 VDC
Limiting continuous current	20 A; 15 A (UL)
Safety and protection	
Protection class	III
Pollution degree	2
Protection type	IP20; per EN 60529
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 26 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97.8 mm / 3.85 inch
Depth	94 mm / 3.701 inch
Mechanical data	
Mounting type	DIN-35 rail
Environmental requirements	
Operating altitude (max.)	2000 m
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Standards and specifications	
Conformity marking	CE

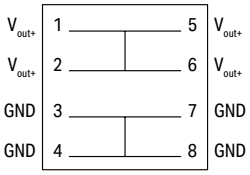
Potential distribution module; 8-way 24 VDC
787 Series



	Item No.	PU
	787-3861/000-2000	1

Electrical data	
Nominal operating voltage	24 VDC
Operating voltage	0 … 30 VDC
Limiting continuous current	20 A; 15 A (UL)
Safety and protection	
Protection class	III
Pollution degree	2
Protection type	IP20; per EN 60529
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 26 … 14 AWG
Fine-stranded conductor	0.34 … 2.5 mm² / 22 … 14 AWG
Physical data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97.8 mm / 3.85 inch
Depth	94 mm / 3.701 inch
Mechanical data	
Mounting type	DIN-35 rail
Environmental requirements	
Operating altitude (max.)	2000 m
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Standards and specifications	
Conformity marking	CE

Potential distribution module; 4-way 24 VDC / 4-way 0 VDC
787 Series



	Item No.	PU
	787-3861/000-3000	1

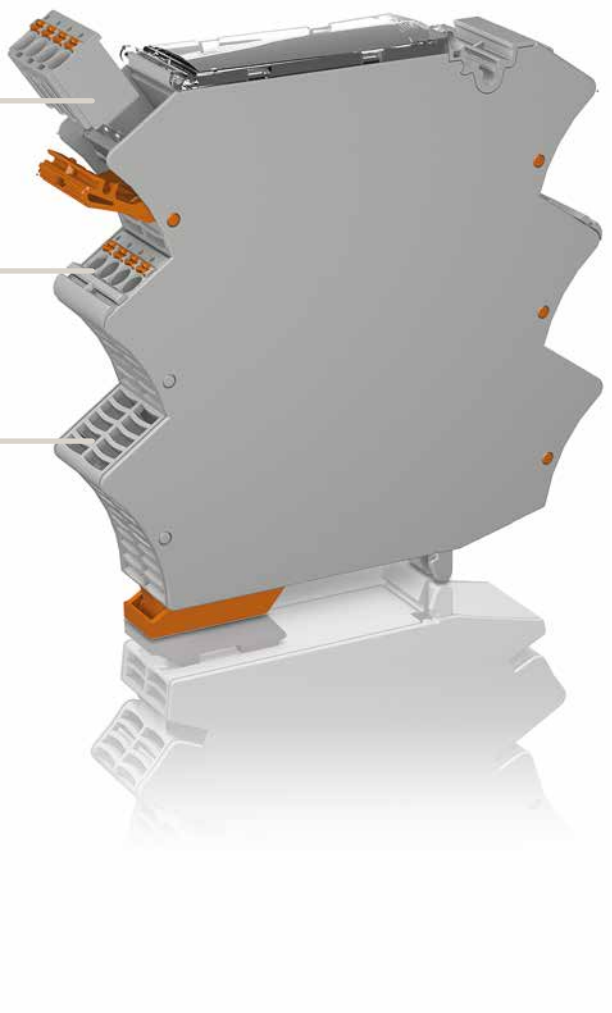
Electrical data	
Nominal operating voltage	24 VDC
Operating voltage	0 … 30 VDC
Limiting continuous current	20 A; 15 A (UL)
Safety and protection	
Protection class	III
Pollution degree	2
Protection type	IP20; per EN 60529
Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 … 2.5 mm² / 26 … 14 AWG
Fine-stranded conductor	0,34 … 2,5 mm² / 22 … 14 AWG
Physical data	
Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	97.8 mm / 3.85 inch
Depth	94 mm / 3.701 inch
Mechanical data	
Mounting type	DIN-35 rail
Environmental requirements	
Operating altitude (max.)	2000 m
Ambient temperature (operation at U_N)	-25 … +70 °C
Ambient temperature (storage)	-40 … +85 °C
Relative humidity	10 … 95 % (no condensation permissible)
Standards and specifications	
Conformity marking	CE

WAGO Accessories and WAGO Tools

WAGO Accessories and WAGO Tools

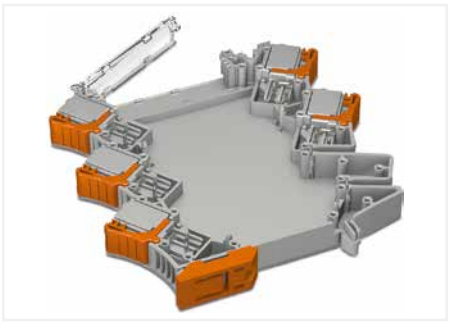
10

Modular empty housings
Overview and configuration
2857 Series

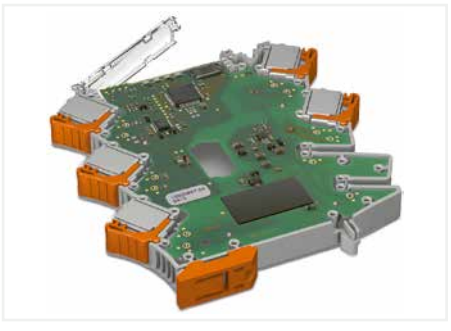


All are freely selectable for each connection point.

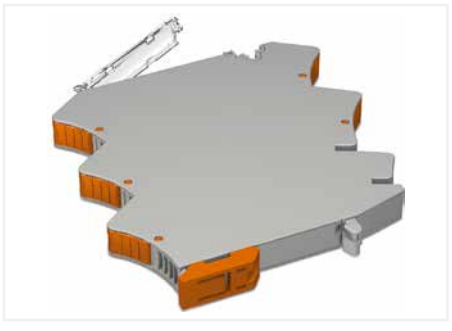
Supplied as a pre-assembled unit:



1. Pre-assembled unit



2. Insert and solder the PCB.



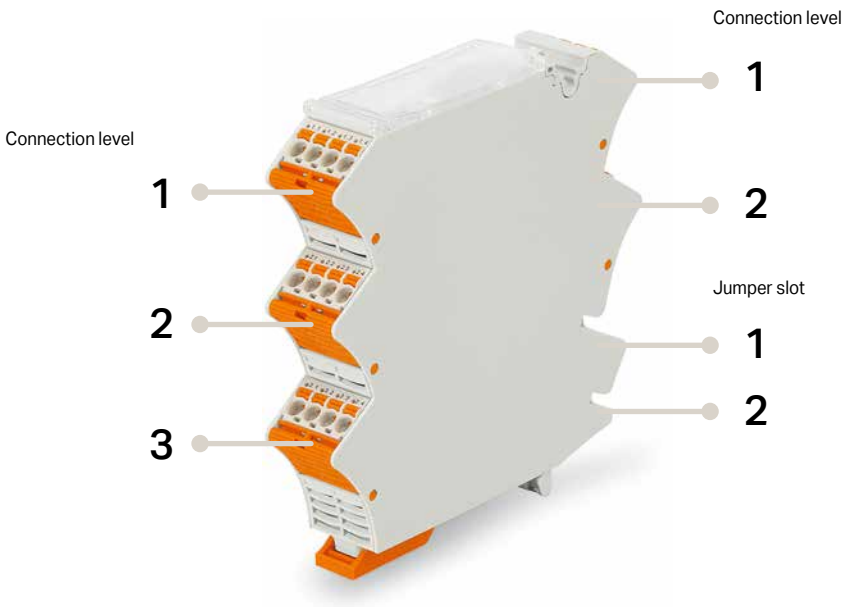
3. Snap on the side wall.

Housing configuration:

Housing width: 12.5 mm	 2857-101	 2857-102	 2857-103	–
Housing width: 22.5 mm	 2857-121	 2857-122	 2857-123	 2857-124
Connection levels	2-2	3-2	3-3	1-1
Jumper slots	2-2	0-2	0-0	2-2

Mixed configuration (fixed/removable/empty slot) upon request!

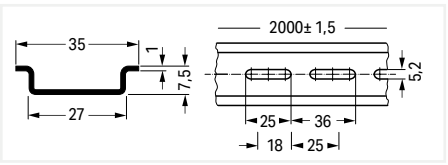
Example of connection level and jumper slot assignment:



Connection levels	3-2
Jumper slots	0-2

DIN-Rail; Rail end cap; Angled support bracket and collective jumper carrier

Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	PU
unslotted	**210-113**	10 (1)

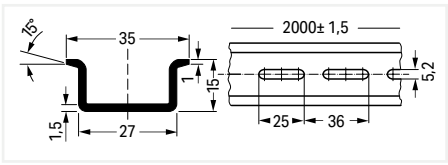
Hole width: 25 mm; Hole spacing: 36 mm

slotted	**210-112**	10 (1)

Hole width: 18 mm; Hole spacing: 25 mm

slotted	**210-115**	1

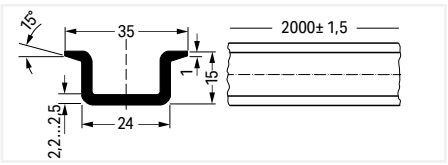
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; similar to EN 60715

	Item No.	PU
unslotted	**210-114**	10 (1)
slotted	**210-197**	10 (1)

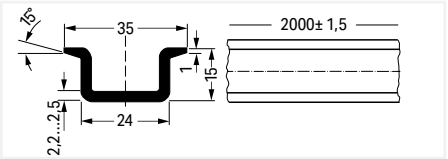
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	PU
unslotted	**210-118**	10 (1)

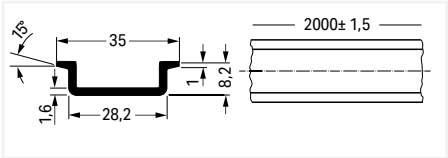
Dimensions in mm



Copper DIN-rail; I_N 309 A (based on 1 m length); 35 x 15 mm; 2.3 mm thick; 2 m long; per EN 60715

	Item No.	PU
unslotted	**210-198**	10 (1)

Dimensions in mm



Aluminum DIN-rail; I_N 76 A (based on 1 m length); 35 x 8.2 mm; 1.6 mm thick; 2 m long; similar to EN 60715

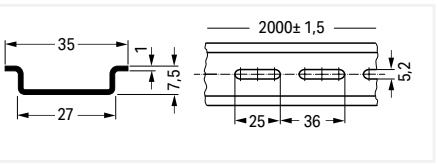
	Item No.	PU
unslotted	**210-196**	20 (1)

Rail end cap; for DIN-35 rail (7.5 mm high)

Color	Item No.	PU
gray	**209-109**	50 (25)

10

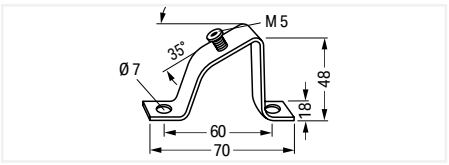
Dimensions in mm



Steel DIN-rail; I_N 76 A (based on 1 m length); 35 x 7.5 mm; 1 mm thick; 2 m long; per EN 60715

	Item No.	PU
unslotted	**210-505**	1
slotted	**210-504**	1

Dimensions in mm

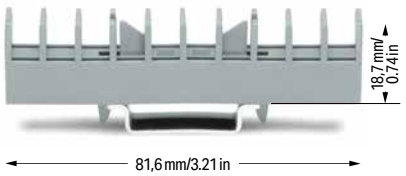


Angled support bracket; without screw

	Item No.	PU
	210-148	10

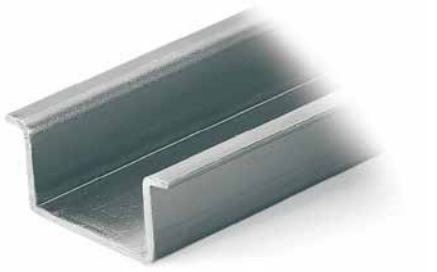
Screw M5 x 8

	210-149	100 (20)

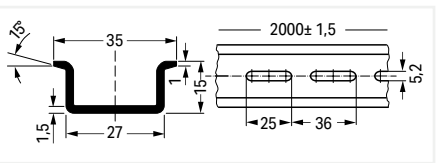


Collective jumper carrier; for DIN-35 rail; compatible with jumpers for transverse switching terminal block (282-811) and longitudinal switching disconnect terminal block (282-821)
The collective carrier can be snapped onto DIN-35 rails. It stores jumpers during maintenance.

Color	Item No.	PU
◯ gray	**282-369**	25



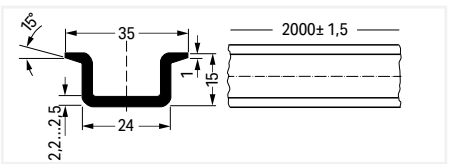
Dimensions in mm



Steel DIN-rail; I_N 125 A (based on 1 m length); 35 x 15 mm; 1.5 mm thick; 2 m long; per EN 60715

	Item No.	PU
unslotted	**210-506**	1
slotted	**210-508**	1

Dimensions in mm



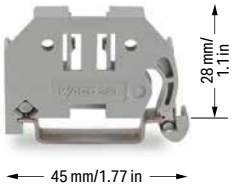
Carrier rail; plastic
Not suited for use with ground terminal blocks!

	Item No.	PU
	210-509	10 (1)

Collective carrier for adjacent jumpers; for DIN-35 rail; for adjacent jumpers (279 to 284 Series); for banana plugs (215 Series)
The collective carrier can be snapped onto DIN-35 rails. It stores adjacent jumpers and banana plugs during maintenance.

Color	Item No.	PU
◯ gray	**209-100**	50 (25)

Screwless end stop; for DIN-35 rail
249 Series

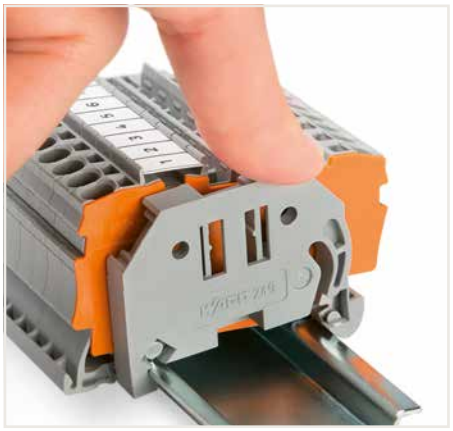


Screwless end stop; for DIN-35 rail; 6 mm wide		
Color	Item No.	PU
gray	249-116	100 (25)

Screwless end stop; for DIN-35 rail; 10 mm wide		
gray	249-117	50 (25)

Screwless end stop; for DIN-35 rail; 14 mm wide		
Color	Item No.	PU
gray	249-197	10


Simply snap on – that's it!


Simply snap on – that's it!


Simply snap on – that's it!


Removing an end stop from the DIN-rail.

Snap on – that's it! Assembling the WAGO Screwless End Stop is as simple and quick as snapping a rail-mount terminal block onto the rail.

Tool free!

A tool-free design allows rail-mount terminal blocks to be safely and economically secured against any movement on all DIN-35 rails per DIN EN 60715 (35 x 7.5 mm; 35 x 15 mm).

Screwless!

The "secret" to a perfect fit lies in the two small clamping plates which keep the end stop in position, even if the rails are mounted vertically.

Simply snap on – that's it!

In addition, costs are significantly reduced when using large numbers of end stops.

Additional benefit: Three marker slots for all WAGO Rail-Mount Terminal Block Marking Systems and one snap-in hole for WAGO's adjustable height group marker carriers offer individual marking options.

Operating tool

Operating tool with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade

	Item No.	PU
	210-719	50 (1)

Operating tool with a partially insulated shaft; Type 2, (3.5 x 0.5) mm blade

	210-720	50 (1)

Operating tool with a partially insulated shaft; Type 3, (5.5 x 0.8) mm blade

	210-721	25 (1)

Set of operating tools with a partially insulated shaft; Type 1, (2.5 x 0.4) mm blade; Type 2, (3.5 x 0.5) mm blade; Type 3, (5.5 x 0.8) mm blade

	210-722	1

Operating tool; Blades: 3.5 mm and 2.5 mm; for installation terminal blocks (TOPJOB® S)

	Item No.	PU
	2009-309	50 (1)

Operating tool; Blades: 3.5 mm and 5.5 mm; for installation terminal blocks (TOPJOB® S)

	2009-310	50 (1)

Operating tool with a partially insulated shaft; Type 1; (2.5 x 0.4) mm blade; short

	Item No.	PU
	210-647	50 (1)

Operating tool with a partially insulated shaft; (2.5 x 0.4) mm blade; short; angled

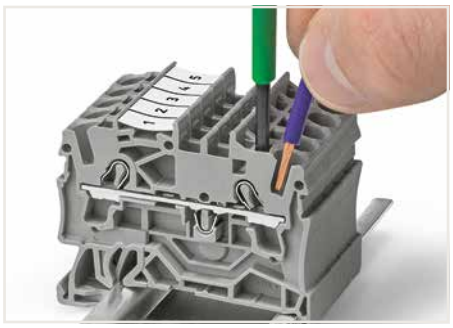
	210-648	50 (1)

Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short

	210-657	50 (1)

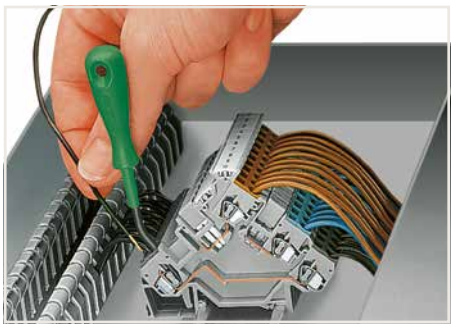
Operating tool with a partially insulated shaft; (3.5 x 0.5) mm blade; short; angled

	210-658	50 (1)



The blade of this operating tool with a partially insulated shaft is ideal for operating front-entry terminal blocks.

Open the clamping unit using an operating tool.



This operating tool with blade dimensions per DIN 5264 is ideal for front-entry sensor/actuator terminal blocks (280 Series).

Set of operating tools in a box (210-722)

10

Thermal transfer printer
Smart printer


Open the printer.


Printer – open


Accessories for unwinding material


Insert the ink ribbon.


Prepare the marking material.


Insert and secure the appropriate roller into the printer.


Printer has several interfaces:
USB, ETHERNET, serial COM port


Fast, cost-effective and easy to use –
printing WMB Inline markers via Smart Printer

10

Thermal transfer printer and cutter
Smart printer

Smart Printer; WMB Inline markers; Marking strips; Conductor markers and labels; Resolution: 300 dpi

	Item No.	PU
	258-5000	1

Smart Printer
includes:
- Power supply and cable
- USB cable
- 1 x marking strip reel (2009-110)
- 1 x WMB Inline marker reel (2009-115)
- 2 x roller (258-5006 + 258-5007)
- 1 x reel holder
- 1 x ink ribbon (258-5005)

Technical data	
Printing method	Thermal transfer
Print head	Glass layer, spring-mounted
Print speed (max.)	127 mm/s (WAGO recommends 50.8 mm/s)
Print width (max.)	47 mm
Print length (max.)	762 mm
Print resolution	300 dpi (12 pixels/mm)
See-through/reflective sensor	Yes, centrally mounted
Operating display	Color TFT LCD with navigation button
Memory	8 MB Flash, 16 MB SDRAM
Interfaces	USB, RS-232, ETHERNET 10/100 Mbps, USB Host
Operating voltage	100 … 240 VAC, 50 … 60 Hz (automatic adjustment)
Dimensions (mm) W x H x D	135 x 175 x 245
Weight	2000 g (without printing material)
Operating temperature	5 … 40 °C (41 … 104 °F)
Storage temperature	−20 … 50 °C (−4 … 122 °F)
Safety approvals	CE (EMC)
Ink ribbon (see also Full Line Catalog, Volume 6, Marking)	External roll diameter: 40 mm; Internal core diameter: 12.7 mm (0.5 inch); Max. length: 110 m; Max. width: 58 mm

Cutter for Smart Printer; for marking strips only; not suitable for WMB Inline markers

	Item No.	PU
	258-5030	1

Hardware requirements:
- Printer model: Smart Printer
- From manufacturing month/year: 0814 – August 2014
- Firmware version: 1.UW7i
- Printer driver: Version 7.4.2

Software requirements:
- Smart Script: Version 3.88.9.0 or higher
- WAGO printer settings: Version 2.4.0.0 or higher

Approved print material to be cut:
- Marking strips: 2009-110, 709-177, 709-178, 757-901/000-005
- Self-adhesive marking strips: 210-702, 210-870 … -877
- Cable tie markers: 211-835 … -836, 211-836/000-002
- Self-laminating labels: 211-855 … -857
- Conductor markers for thread-on mounting: 211-861 … -863
- Type labels: 210-801 … -804, 210-812
- Continuous labels: 210-831 … -834
- Label for circuit identification: 210-813

Dimensions of printing materials:
- Width (max.): 46 mm
- Thickness (max.): 250 µm

Technical data	
Width	60 mm
Height	107 mm
Depth	131 mm
Weight	1050 g

Marking system

Terminal block width: 3.5 mm, 4 … 4.2 mm and from 5 mm

Use		
Marker width	Can be snapped onto the following terminal block series	
	for continuous marking	that will be separated
3.5 mm	2000, 2020	-
4 … 4.2 mm	279, 2001	-
5 … 5.2 mm	270, 280, 780, 869, 870, 880, 2002, 2003, 2022	Terminal blocks with spacing > 5 … 5.2 mm

WMB Inline; plain; 2.300 WMB markers (3.5 mm)/reel		
Color	3.5 mm Item No.	PU
◯ white	**2009-113**	1

WMB Inline; plain; 2.000 WMB markers (4 mm)/reel; stretchable 4 … 4.2 mm		
Color	4 … 4.2 mm Item No.	PU
◯ white	**2009-114**	1

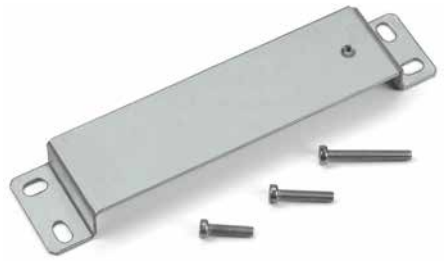
WMB Inline; plain; 1.500 WMB markers (5 mm)/reel; stretchable 5 … 5.2 mm		
Color	5 … 5.2 mm Item No.	PU
◯ white	**2009-115**	1

Use		
	Can be snapped onto the following terminal block series	
	2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2010, 2016, 2020, 2022	

Marking strip; plain; 11 mm wide; 50 m reel		
Color	Item No.	PU
◯ white	**2009-110**	1

10

Wall-Mount adapter
787 Series



Geometric data/Mechanical data/Material data	
Width x height x depth (mm)	35 x 15 x 158.5
Mounting type	Mounting holes: 4 slots, 5.3 mm x 9 mm; Mounting hole spacing: 143 mm x 19.5 mm
Mounting type	Wall-mount
Material	Sheet steel; galvanized
Weight	100 g

Wall-Mount Adapter; for screw mounting 787-8xx devices on a mounting plate or wall without DIN-35 rail

	Item No.	PU
	787-895	5

The wall-mount adapter replaces the rail support of the 787-8xx device.
The adapter is secured to the 787-8xx device via the provided screws.

DIN-Rail adapter
787 Series

DIN-Rail Adapter; secures 787-8xx devices to a DIN-35 rail		
	Item No.	PU
	787-896	1

WAGO's 787-896 DIN-Rail Adapter allows both vertical and horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be easily changed.

Geometric data/Mechanical data/Material data	
Width x height x depth (mm)	35 x 136.5 x 15.5
Mounting type	Slide both single parts into the guide slot and then screw
Mounting type	DIN-35 rail (EN 60715)
Material	Sheet steel; galvanized
Weight	81 g

DIN-Rail adapter
787 Series

DIN-Rail Adapter; made of zinc die-cast; secures 787-8xx devices to a DIN-34 rail		
	Item No.	PU
	787-897	1

WAGO's 787-897 DIN-Rail Adapter allows horizontal mounting of 787-8xx devices.
Mounting the adapter to the device is performed by sliding both single parts into the guide slots of the cooling element and then screwing, allowing the position to be easily changed.

Geometric data/Mechanical data/Material data	
Width x height x depth (mm)	37 x 102.5 x 10.5
Mounting type	Press the adapter into the guide slot
Mounting type	DIN-35 rail (EN 60715)
Material	Zinc die-cast
Weight	96 g

Mounting carrier; 1.5 mm thick; carbon steel; for DIN-35 rail mounting; 28 mm
2789 Series

Mounting carrier; 1.5 mm thick; carbon steel; for DIN-35 rail mounting; 28 mm		
	Item No.	PU
	2789-1128	1

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	28 x 101 x 1,5
Weight	46 g

Mounting carrier; 1.5 mm thick; carbon steel; for DIN-35 rail mounting; 45 mm
2789 Series

Mounting carrier; 1.5 mm thick; carbon steel; for DIN-35 rail mounting; 45 mm		
	Item No.	PU
	2789-1145	1

Physical data/Mechanical data/Material data	
Width x Height x Depth from upper-edge of DIN-rail (mm)	45 x 96 x 1.5
Weight	68 g

Communication cable; with RS-232 Interface
787 Series

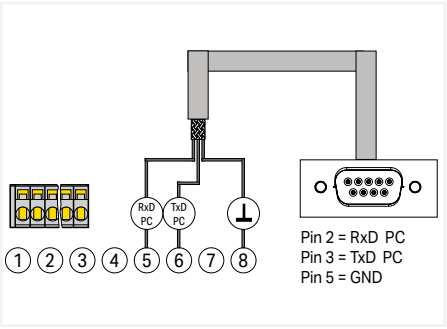
Similar to pictured device

RS-232 Communication Cable; 1.8 m long		
for	**Item No.**	PU
787-8xx	**787-890**	1

This communication cable is used for configuration and visualization via PC or controller.
It is suitable for all 787-8xx Series devices equipped with an RS-232 serial interface. Download the corresponding PC software for all 787 Series devices at www.wago.com/epsitron.

Function modules for communication with the WAGO-I/O-SYSTEM 750 and other control systems are also available.

Note:
The 787-890 Communication Cable is not electrically isolated.



Signaling and communication	
Signaling	1 x RS-232 cable
Communication	RS-232 interface
Safety and Protection/Environmental Requirements	
Protection type	IP20 (per EN 60529)
Ambient temperature (operation)	–10 … +70 °C
Connection data	
Module side (787-8xx)	1 x 8-pole female connector (734-108) with strain relief
PC/controller side	1 x 9 pole D-sub socket
Cable type	3 x 0.34 mm²; shielded
Geometric data/Mechanical data/Material data	
Cable length	1.8 m
Material data	
Weight	113 g

Communication cable; with RS-232 Interface
787 Series

Similar to pictured device

RS-232 Communication Cable; 1.8 m long; for 787-1675		
for	**Item No.**	PU
787-1675	**787-892**	1

This communication cable is used for configuration and visualization via PC or controller.
The communication cable is suitable for 787-1675. Download the corresponding PC software for all 787 Series devices at www.wago.com/epsitron.

Function modules for communication with the WAGO-I/O-SYSTEM 750 and other control systems are also available.

Note:
The 787-892 Communication Cable is not electrically isolated.

Signaling and communication	
Signaling	1 x RS-232 cable
Communication	RS-232 interface
Safety and Protection/Environmental Requirements	
Protection type	IP20 (per EN 60529)
Ambient temperature (operation)	–10 … +70 °C
Connection data	
Module side (787-1675)	1 x 4-pole female connector (734-104) with strain relief
PC/controller side	1 x 9 pole D-sub socket
Cable type	3 x 0.34 mm²; shielded
Geometric data/Mechanical data/Material data	
Cable length	1.8 m
Material data	
Weight	97 g

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Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

PUSH-IN CAGE CLAMP®

Push-in CAGE CLAMP® terminates the following copper conductors: solid

stranded

fine-stranded, also with tinned single strands

fine-stranded, tip-bonded

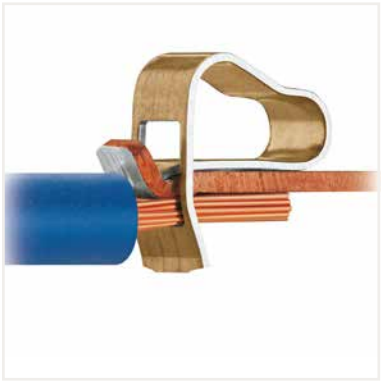
fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

The universal connection with an additional advantage: Push-in connection
Terminate solid and stranded (Class B 7 strands or less), as well as ferruled conductors, by simply pushing them in – no tools required.

Termination for all conductor types:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

CAGE CLAMP®



CAGE CLAMP® terminates the following copper conductors: solid

stranded

fine-stranded, also with tinned single strands

fine-stranded, tip-bonded

fine-stranded, with ferrule (gastight crimped)

fine-stranded, with pin terminal (gastight crimped)

The universal connection for solid, stranded and fine-stranded conductors

Termination:
- Open clamping unit.
- Insert the conductor.
- Release clamp – done!

Operating WAGO Connection Technologies

Please follow the applicable product-specific termination instructions.

POWER CAGE CLAMP®

POWER CAGE CLAMP terminates the following copper conductors: solid

stranded

fine-stranded, also with tinned single strands

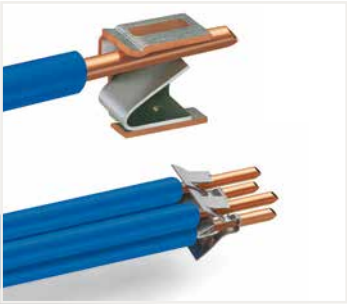
fine-stranded, with ferrule (gastight crimped)

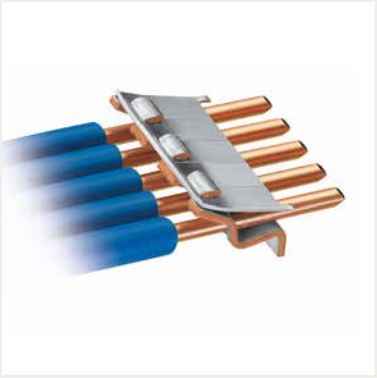
The universal connection for conductors larger than 35 mm² (2 AWG)

Termination:

- Open clamp by turning a T-wrench counter-clockwise.
- Press the integrated latch to open clamping unit for hands-free wiring.
- Insert the conductor.
- A small counter-clockwise rotation closes the clamp, securing conductor.

PUSH WIRE®



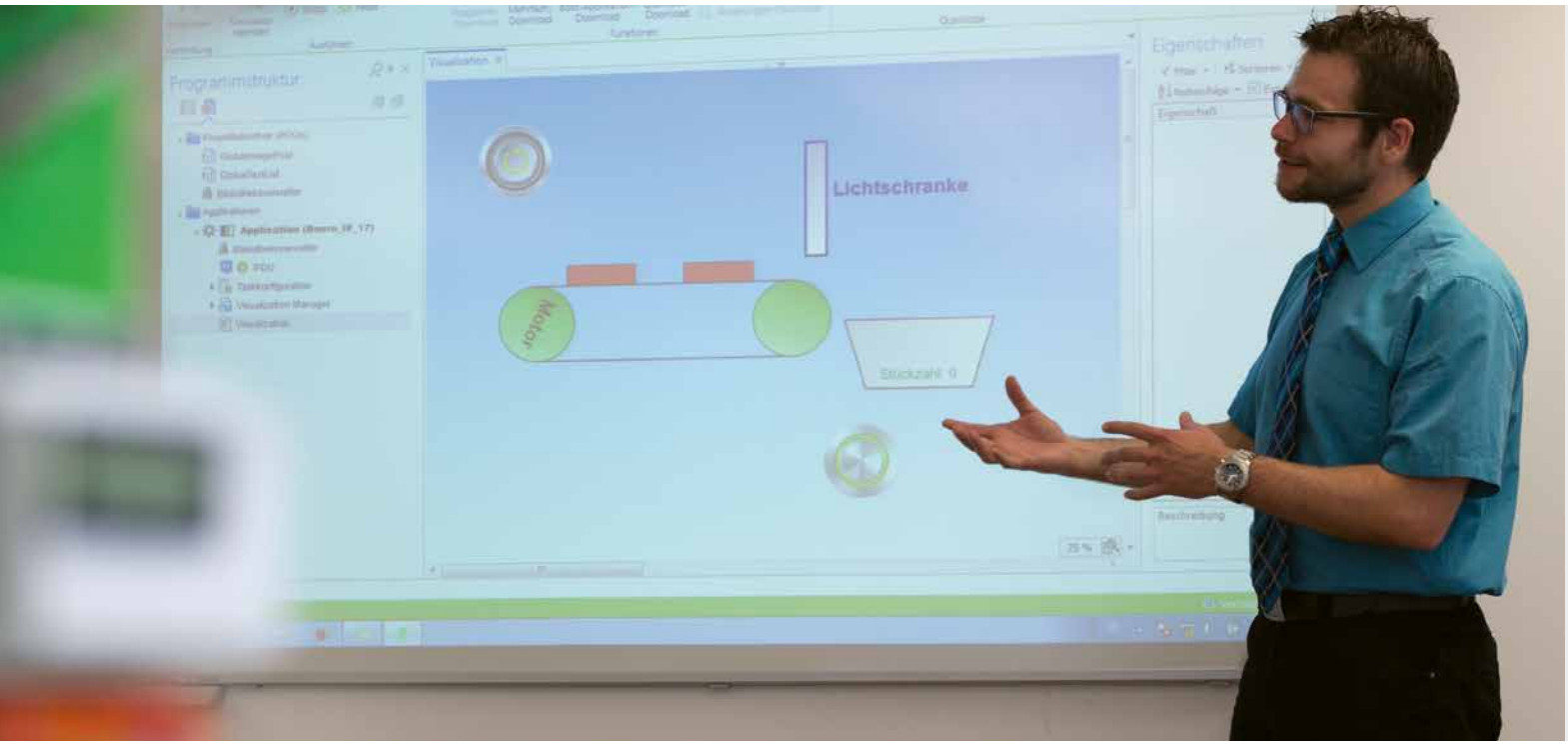


PUSH WIRE® terminates the following copper conductors: solid

PUSH WIRE® connection for solid and stranded conductors (depending on the model used)

Termination:
Tool-free, twist-free terminations for solid and rigid stranded conductors – simply push into the unit.

WAGO-Seminars
Learn Today – Benefit Tomorrow



Setting the Bar with Your Goals

Product-Related and Customer-Specific Seminars

Small Groups

The small class sizes of WAGO training seminars ensures that no question goes unanswered and no one is overlooked.

Teamwork

Learning as a group is very effective. Ideas can be discussed and exchanged while experiences can be shared – all for the benefit of the participants.

Practical Topics

Experience has shown that practice makes perfect. This is why the focus of every WAGO training seminar is on practical, hands-on learning.

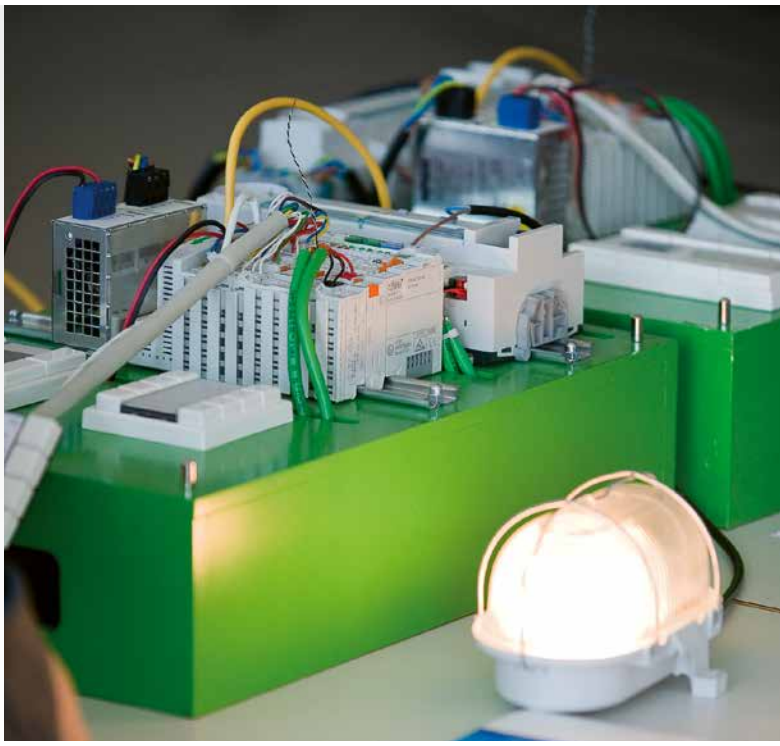
WAGO-Seminars
Experience the Benefits of First-Hand Knowledge and Expertise – Straight from the Source

Our instructors are specialists who know all the ins and outs of WAGO's products. This ensures that the time devoted to each WAGO training seminar is an effective investment in expanding your own expertise.

Request your registration form by email:

training@wago.com

Contact your local WAGO office.



Product-Related Seminars

We regularly offer product-related seminars on the following topics:

- Building and industrial automation
- Programming of automation components
- Fieldbus systems

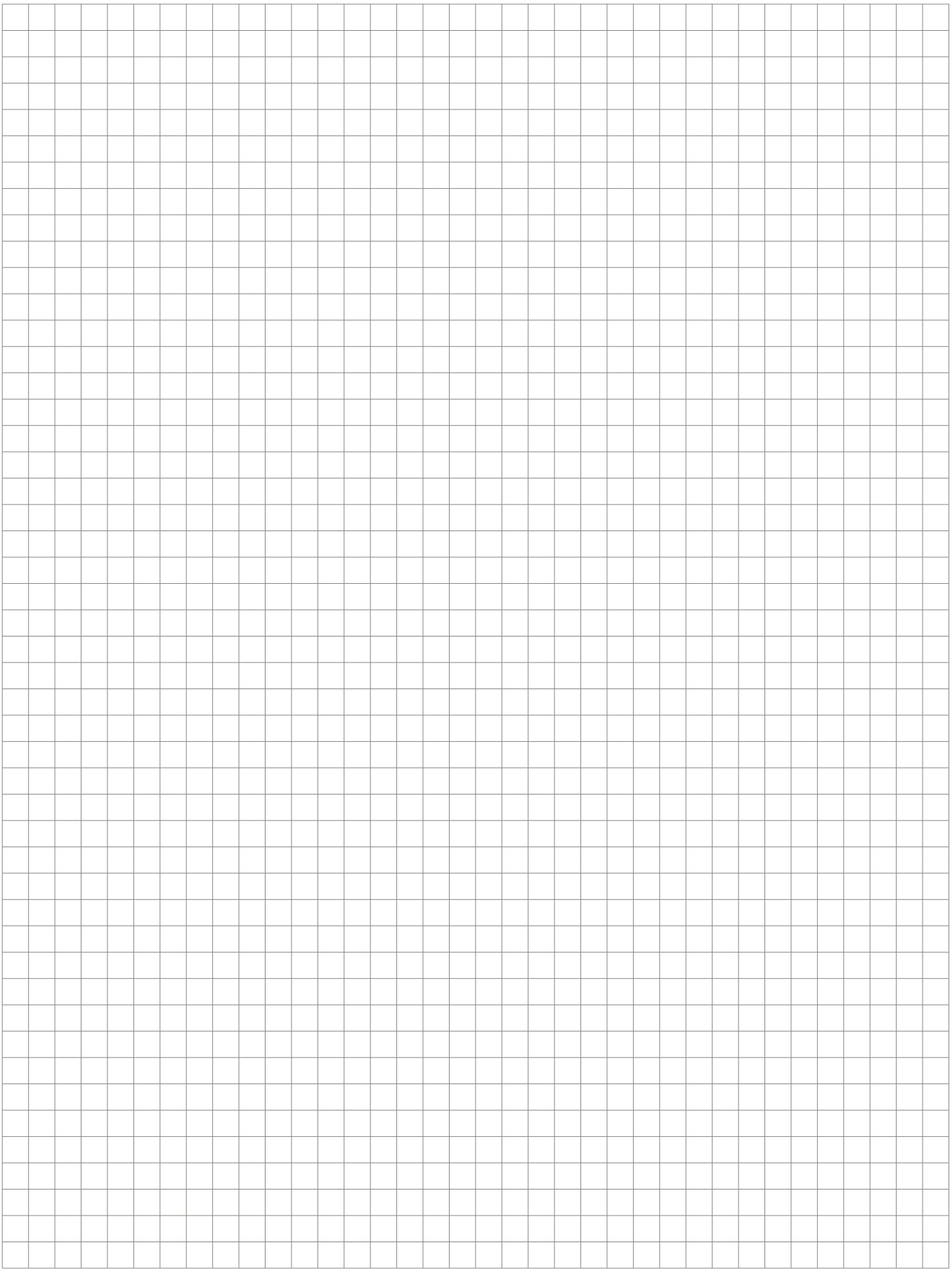
Current Seminars at: www.wago.com

Customer-Specific Training Seminars

In addition to these "open" seminars, we also offer seminars specially tailored to your organization and its particular needs.

Upon request, we can also conduct these courses at your location.

Special Corporate Seminars



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