

Data sheet | Item number: 787-1102

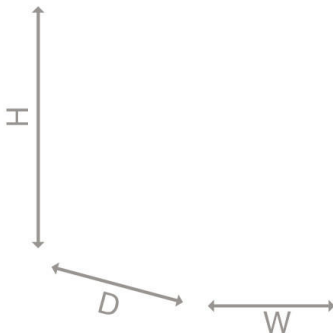
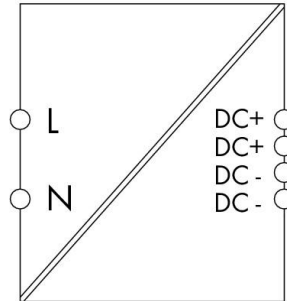
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage;
1.3 A output current; DC OK signal

www.wago.com/787-1102



RoHS
Compliant

BOMcheck.net



Item description

Features:

- Switched-mode power supply
- 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 60950-1/UL 60950-1; PELV per EN 60204

Subject to changes. Please also observe the further product documentation!

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Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V
Input voltage range	AC 85 ... 264 V; DC 120 ... 373 V
Input voltage derating	$I_o \leq 1 \text{ A}$ (< 100 VAC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	$\leq 0.5 \text{ A}$ (230 VAC); $\leq 0.7 \text{ A}$ (110 VAC)
Discharge current	$\leq 1 \text{ mA}$
Inrush current	$\leq 30 \text{ A}$ (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 80 \text{ ms}$ (230 VAC); $\geq 10 \text{ ms}$ (110 VAC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22.8 ... 26.4 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{ nom}}$	1.3 A (24 VDC); 0.9 A (in any mounting position)
Nominal output power	31 W
Control deviation	$\leq 2 \%$
Residual ripple	$\leq 100 \text{ mV}$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{ nom}}$ (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	$\leq 2.6 \text{ W}$ (230 VAC; No load); $\leq 7 \text{ W}$ (230 VAC; Nominal load)
	7.3 W (100 VAC / 24 VDC; 1.3 A)

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Power loss (max.) $P_{I(max)}$	
Efficiency (typ.)	82 %

Circuit protection

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

Safety and protection

Isolation voltage (Pri.-Sec.)	DC 4.242 kV
Protection class	II
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	$\leq$ DC 30 V
Overvoltage category	II
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	$\leq$ 40 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type (1)	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO Connector	picoMAX® 5.0, WAGO 2092 Series
Solid conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Physical data

Width	54 mm / 2.126 inch
Height	89 mm / 3.504 inch
Depth	59 mm / 2.323 inch
Depth from upper edge of DIN-rail	55 mm / 2.165 inch

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Mechanical data

Mounting type	DIN-35 rail
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Material data

Flammability class per UL94	V0
Weight	170 g

Environmental requirements

Surrounding air temperature (operation)	-25 ... 60 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-25 ... 80 °C
Surrounding air (operating) temperature for UL	-25 ... 55 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-3 %/K (> 45 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/Specifications	EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL

Commercial data

Packaging type	BOX
Country of origin	CN
GTIN	4055143421997
Customs tariff number	85044082900

Approvals / Certificates

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00000KT

UL-Approvals

Certificate

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Logo	Approval	Additional Approval Text	name
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Compatible products

Strain relief plate

	Item no.: 2092-1600 Gripping plate; light gray	www.wago.com/2092-1600
	Item no.: 2092-1601 Gripping plate; light gray	www.wago.com/2092-1601

ferrule

	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-302

tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-720
	Item no.: 210-769 SCREWDRIVER; green	www.wago.com/210-769

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Downloads Documentation

Bid Text

787-1102 docx - Datei	Jun 12, 2019	docx 21.6 kB	Download
787-1102 X81 - Datei	Jun 24, 2019	xml 7.0 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON COMPACT Power		pdf 325.8 kB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

CAE data

EPLAN Data Portal 787-1102		URL	Download
WSCAD Universe 787-1102		URL	Download

Installation Notes

Product family

EPSITRON COMPACT Power

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

[Show all products from the family](#)

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