

Data sheet | Item number: 787-1201

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

www.wago.com/787-1201



Item description

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

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

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- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V; DC 140 ... 340 V
Input voltage range	1 x AC 90 ... 264 V; DC 125 ... 375 V
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 $U_{o\text{ nom}}$	DC 12 V (SELV)
Output voltage range	DC 10 ... 14 V (adjustable)
Default setting	DC 12 V
Nominal output current $I_{o\text{ nom}}$	2.5 A
Nominal output power	30 W
Deviation	≤ 1 %
Deviation, dynamic load change 10 ... 90 %	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.35 \times I_{o\text{ nom}}$); 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)

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



Efficiency/power losses

Power loss P_I	$\leq 0.5 \text{ W}$
Power loss (max.) $P_{I(\text{max.})}$	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

Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	$\leq 20 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes, for devices of the same type
Series operation	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)

Connection data

Connection type 1	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	<i>picoMAX</i> ® 5.0, WAGO 2092 Series
Solid conductor	0.2 ... 2.5 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm ² / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Cable length (max.)	30 m

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



Physical data

Width	54 mm / 2.126 inches
Height	90 mm / 3.543 inches
Depth	56 mm / 2.205 inches
Depth from upper-edge of DIN-rail	52.5 mm / 2.067 inches
Note (dimensions)	Depth: 48 mm (without cover)

Mechanical Data

Housing design	DIN-rail-mount enclosure
Mounting type	DIN-35 rail Screw mount (back/side)

Material Data

Flammability class per UL94	V0
Weight	318.5 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	20 ... 90 % (no condensation permissible)
Derating	-0.8 %/K (> 45 °C)
Climatic category	3K3 (per EN 60721; except for low air pressure)

Standards and specifications

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

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box

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



Country of origin	CN
GTIN	4055143863308
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B.00089_19
	UL Underwriters Laboratories Inc.	UL 508	E255817

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Optional accessories

Strain relief

Strain relief plate	
Item no.: 2092-1601 Gripping plate; for female and male connectors; 1 part; Pin spacing 5 mm; 3- to 4-pole; light gray	www.wago.com/2092-1601

Tool

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

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Downloads

Documentation

Bid Text

787-1201 docx - Datei	2019 年7月30 日	docx 21.9 kB	Download
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787-1201 X81 - Datei	2019 年7月30 日	xml 8.0 kB	Download
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Instruction Leaflet

Stromversorgung COMPACT	V 1.2.0 2020 年8月18 日	pdf 2.7 MB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1201		URL	Download
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CAE data

EPLAN Data Portal 787-1201		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1201 Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2.5 A output current; DC-OK LED		URL	Download
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Installation Notes

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