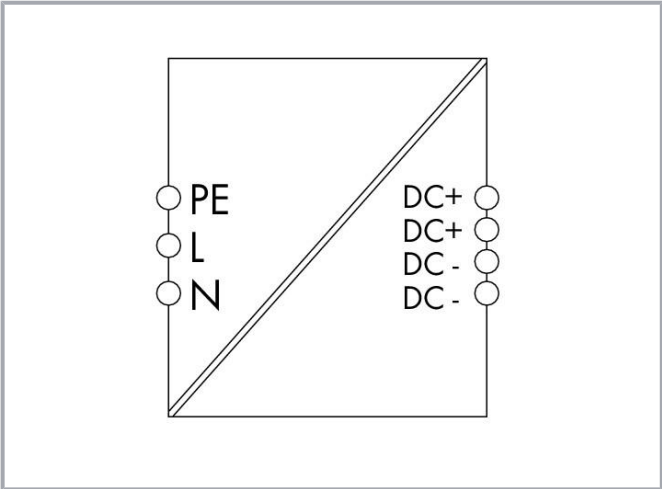


Data sheet | Item number: 787-1221
Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 8 A output current; DC-OK LED



www.wago.com/787-1221



Item description

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

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\,nom}$	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	-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)

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

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Inrush current	$\leq 30 \text{ A (NTC)}$
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 50 \text{ ms (230 VAC)}$

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 $I_{o \text{ nom}}$	8 A
Nominal output power	96 W
Deviation	$\leq 1 \%$
Deviation, dynamic load change 10 ... 90 %	$\leq 1 \%$
Residual ripple	$\leq 100 \text{ mV (peak-to-peak)}$
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)

Efficiency/power losses

Power loss P_l	$\leq 0.7 \text{ W}$
Power loss (max.) $P_{l \text{ (max.)}}$	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

Protection class	I
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Protection type	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	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	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)

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 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches
Cable length (max.)	30 m

Physical data

Width	108 mm / 4.252 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

Mechanical Data

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

Material data

Flammability class per UL94	V0
Weight	422.8 g

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

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	20 ... 90 % (no condensation permissible)
Derating	-2 %/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
Country of origin	CN
GTIN	4055143863360
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

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

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

Downloads

Documentation

Bid Text

787-1221 X81 - Datei	2019 Jul 30	xml 7.7 kB	Download
787-1221 docx - Datei	2019 Jul 30	docx 21.7 kB	Download

Instruction Leaflet

Stromversorgung COMPACT	V 1.2.0 2020 Aug 18	pdf 2.7 MB	Download
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Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1221	URL	Download
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Asset Administration Shell

Asset Administration Shell 787-1221	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1221	URL	Download
Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 8 A output current; DC-OK LED		

Installation Notes

Product family

- EPSITRON COMPACT Power
- EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies
- Show all products from the family

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