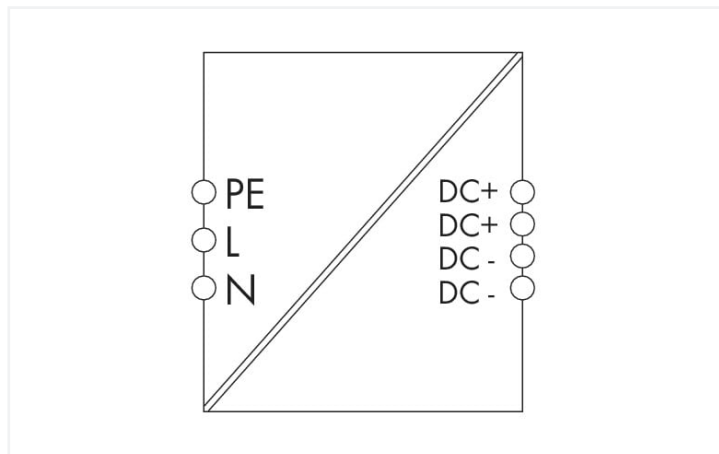


Data Sheet | Item Number: 787-1221

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

<https://www.wago.com/787-1221>



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

Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o, nom}$	DC 12 V (SELV)
Nominal input voltage $U_{i, nom}$	1 x AC 100 ... 240 V; DC 140 ... 340 V	Output voltage range	DC 10 ... 14 V (adjustable)
Input voltage range	1 x AC 90 ... 264 V; DC 125 ... 375 V	Default setting	DC 12 V
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)	Nominal output current $I_{o, nom}$	8 A
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output power	96 W
Input current I_i	≤ 1.6 A (100 VAC; 8 ADC)	Deviation	≤ 1 %
Discharge current	≤ 0.25 mA	Deviation, dynamic load change 10 ... 90 %	≤ 1 %
Inrush current	≤ 30 A (NTC)	Residual ripple	≤ 100 mV (peak-to-peak)
Power factor	≥ 0.5	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
Power factor correction (PFC)	passive		
Mains failure hold-up time	≥ 50 ms (230 VAC)		

Signaling and communication

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

Efficiency/power losses

Power loss P_I	≤ 0.7 W
Power loss (max.) $P_{I(max)}$	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

Isolation voltage (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.12 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 16 V
Overtoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overtoltage 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 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

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

Mounting type	DIN-35 rail Screw mount (back)
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Material data

Flammability class per UL94	V0
Fire load	0 MJ
Weight	422.8 g

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)

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
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

Declarations of conformity and manufacturer's declarations



Approval	Standard	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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 787-1221	↓

Documentation

Bid Text			
787-1221	30.07.2019	xml 7.57 KB	↓
787-1221	30.07.2019	docx 21.21 KB	↓

Instruction Leaflet			
Stromversorgung COMPACT	V 1.2.0 18.08.2020	pdf 2661.69 KB	↓

CAD/CAE-Data

CAD data

2D/3D Models
787-1221



1 Compatible Products

1.1 Optional Accessories

1.1.1 Strain relief

1.1.1.1 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

1.1.2 Tool

1.1.2.1 Operating tool



Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Item No.: 210-769

SCREWDRIVER; green