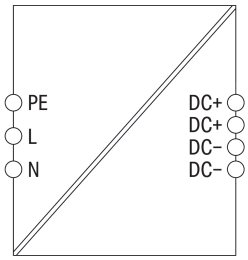
Data Sheet | Item Number: 787-1221

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

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)
Discharge current	≤ 0.25 mA
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)
Default Setting	12 VDC
Nominal output current $I_{o\,nom}$	8 A
Nominal output power	96 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 … 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 DC OK LED (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)

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Circuit Protection

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

Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Isolation voltage (pri.-PE)	2.12 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 16 VDC
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

Cable length (max.)	30 m

Connection 1

Connection type	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 inches

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)

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Material data

Flammability class per UL94	V0
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)
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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143863360
Customs tariff number	85044083900

Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817

Declarations of conformity and manufacturer's declarations

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

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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 COM-PACT	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 Gripping 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