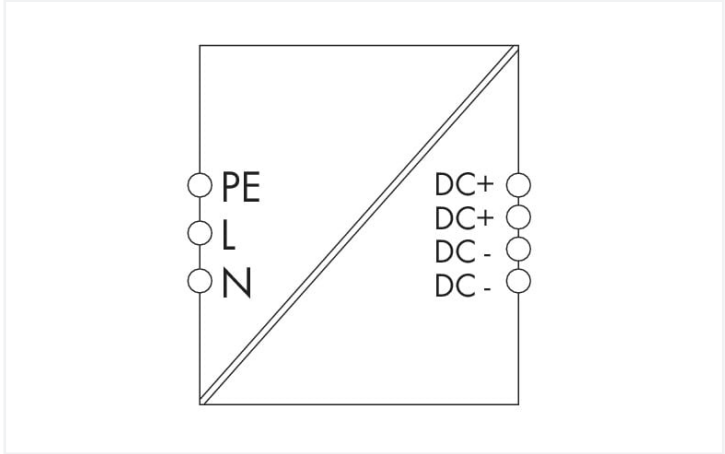


Data Sheet | Item Number: 787-1221

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
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		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
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)

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

Approvals / Certificates		
General approvals		
		
Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 787-1221	

Documentation								
Bid Text			Instruction Leaflet					
787-1221	30.07.2019	xml 7.57 KB		<table><tr><td>Stromversorgung COMPACT</td><td>V 1.2.0 18.08.2020</td><td>pdf 2661.69 KB</td><td></td></tr></table>	Stromversorgung COMPACT	V 1.2.0 18.08.2020	pdf 2661.69 KB	
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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; 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