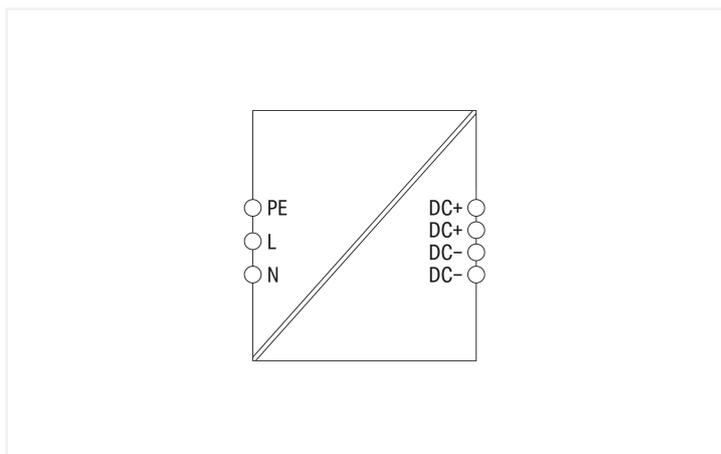


## Data Sheet | Item Number: 787-1221

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 $U_{i, \text{nom}}$	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 $I_i$	$\leq 1.6$ A (100 VAC; 8 ADC)
Discharge current	$\leq 0.25$ mA
Inrush current	$\leq 30$ A (NTC)
Power factor	$\geq 0.5$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 50$ ms (230 VAC)

#### Output

Nominal output voltage $U_{o, \text{nom}}$	12 VDC (SELV)
Output voltage range	10 ... 14 VDC (adjustable)
Default Setting	12 VDC
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	$\leq 100$ mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 ... 1.35 x $I_{o, \text{nom}}$ ); 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 $P_l$	$\leq 0.7$ 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
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
<b>Connection 1</b>	
Connection type	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 <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm <sup>2</sup> / 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)

### 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)
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 Confor- mity 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 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

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)