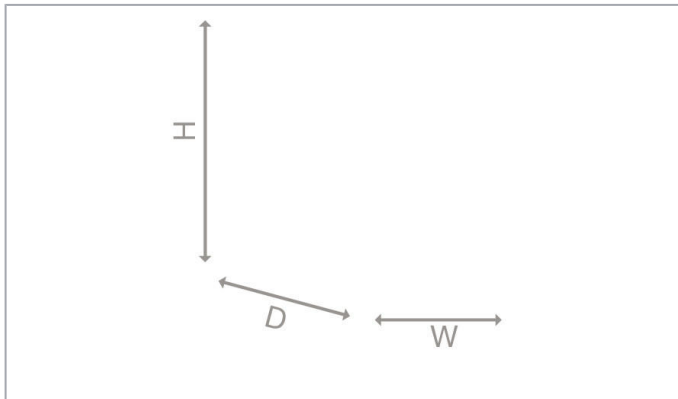
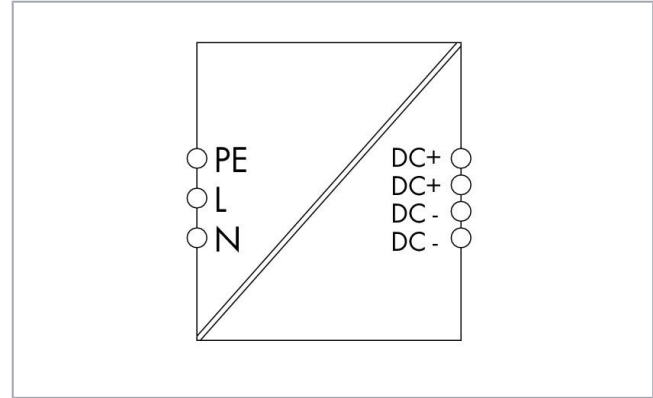


## Data sheet | Item number: 787-1221

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



[www.wago.com/787-1221](http://www.wago.com/787-1221)



### Item description

#### Features:

- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*<sup>®</sup> Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Data

### Technical data

#### Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V; DC 140 ... 340 V
Input voltage range	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 $I_i$	$\leq 1.6$ 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 $U_{o\text{nom}}$	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
Control 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: $1.05 \dots 1.35 \times I_{o\text{nom}}$ ); 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 ( $U_o$ )

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



## Efficiency/power losses

Power loss $P_l$	$\leq 0.7$ W (230 VAC; No load)
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)

## Circuit protection

Internal fuse	T 3.15 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	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.-GND)	DC 2.12 kV
Protection class	I
Protection type	IP20 (per EN 60529)
Resistance to reverse feed	$\leq$ DC 16 V
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	$\leq 20$ 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 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 inch

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



## Physical data

Width	108 mm / 4.252 inch
Height	90 mm / 3.543 inch
Depth	56 mm / 2.205 inch
Depth from upper edge of DIN-rail	52.5 mm / 2.067 inch

## Mechanical data

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

Surrounding air temperature (operation)	-25 ... 70 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	20 ... 90 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Pollution degree	2
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 Stück
Packaging type	BOX
Country of origin	CN
GTIN	4055143863360
Customs tariff number	85044082900


## Approvals / Certificates

### UL-Approvals

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Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817

## Compatible products

### ferrule

	<b>Item no.: 216-201</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-201">www.wago.com/216-201</a>
	<b>Item no.: 216-202</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-202">www.wago.com/216-202</a>
	<b>Item no.: 216-203</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-203">www.wago.com/216-203</a>
	<b>Item no.: 216-204</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<a href="http://www.wago.com/216-204">www.wago.com/216-204</a>
	<b>Item no.: 216-301</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-301">www.wago.com/216-301</a>
	<b>Item no.: 216-302</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-302">www.wago.com/216-302</a>

### tools

	<b>Item no.: 210-720</b> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
	<b>Item no.: 210-769</b> SCREWDRIVER; green	<a href="http://www.wago.com/210-769">www.wago.com/210-769</a>

### Strain relief plate

	<b>Item no.: 2092-1601</b> Gripping plate; light gray	<a href="http://www.wago.com/2092-1601">www.wago.com/2092-1601</a>
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## Downloads

### Documentation

#### Bid Text

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

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docx - Datei

21.7 kB

### Instruction Leaflet

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

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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### Environmental Product Compliance

#### Compliance Search

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

### Product family

**EPSITRON COMPACT Power**

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

[Show all products from the family](#)

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