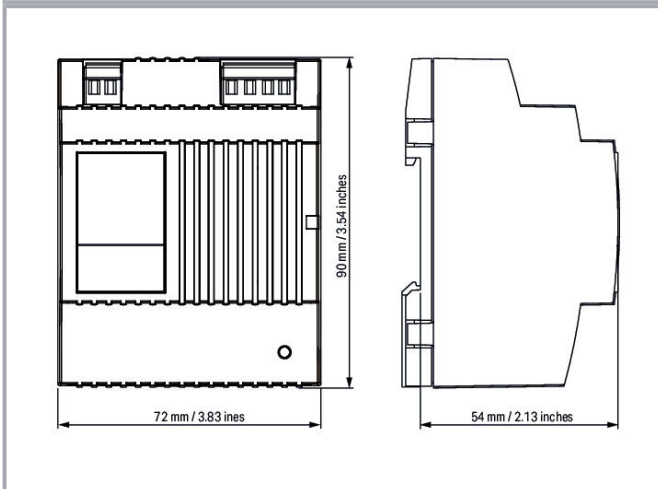
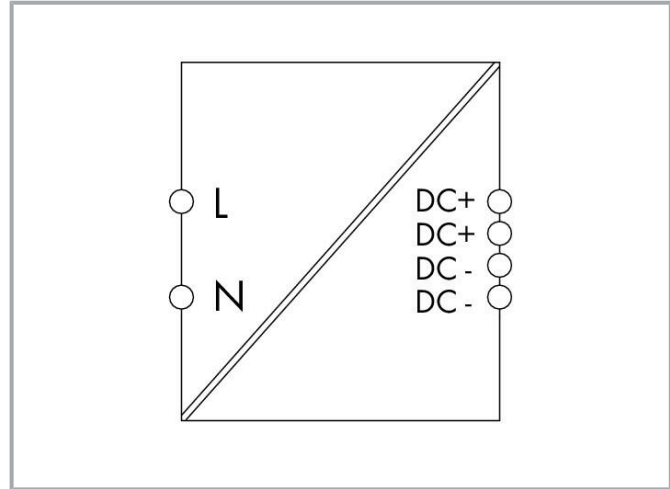


Data sheet | Item number: 787-1011

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 4 A output current



www.wago.com/787-1011



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.

Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards/boxes
- Overhead mounting is possible with derating
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 61010-2-201/UL 60950-1; PELV per EN 60204

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 85 ... 264 V; DC 120 ... 300 V
Input voltage derating	$I_o \leq 3.5 \text{ A}$ (< 100 VAC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	$\leq 0.5 \text{ A}$ (230 VAC); $\leq 0.9 \text{ A}$ (110 VAC)
Inrush current	$\leq 30 \text{ A}$ (NTC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 80 \text{ ms}$ (230 VAC); $\geq 10 \text{ ms}$ (110 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 12 V (SELV)
Output voltage range	DC 10.5 ... 15.5 V (adjustable)
Nominal output current $I_{o\text{nom}}$	4 A (12 VDC); 2.4 A (in any mounting position)
Nominal output power	48 W
Residual ripple	$\leq 100 \text{ mV}$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{nom}}$ (typ.)
Overload behavior	Constant current

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



Signaling and Communication

Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses

Power loss P_l	≤ 2.2 W; ≤ 8.5 W (230 VAC; nominal load)
Power loss (max.) $P_{l(max)}$	9 W (100 VAC / 12 VDC; 4 A)
Efficiency (typ.)	85 %

Circuit protection

Internal fuse	T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

Safety and protection

Protection class	II
Protection type	IP20; per EN 60529
Oversvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Oversvoltage protection; secondary	≤ 30 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 740 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG

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



Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
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Physical data

Width	72 mm / 2.835 inches
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Height	89 mm / 3.504 inches
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Depth	59 mm / 2.323 inches
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Depth from upper-edge of DIN-rail	55 mm / 2.165 inches
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Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Flammability class per UL94	V0
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Weight	255 g
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Environmental requirements

Ambient temperature (operation)	-25 ... +60 °C (Device starts at -40 °C (type-tested))
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Ambient temperature (storage)	-25 ... +80 °C
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Ambient temperature UL (operation at U_N)	-25 ... +55 °C
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Relative humidity	5 ... 96 % (no condensation permissible)
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Derating	-3 %/K (> 45 °C)
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Standards and specifications

Conformity marking	CE
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Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 60950-1 UL 508 DNV
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Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
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eCl@ss 10.0	27-04-07-01
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eCl@ss 9.0	27-04-07-01
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ETIM 8.0	EC002540
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ETIM 7.0	EC002540
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PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4050821297604
Customs tariff number	85044083900

Environmental Product Compliance


RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals



Logo	Approval	Additional Approval Text	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 60950-1	E255815

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Optional accessories

Marking accessories

Marking strip		
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	www.wago.com/210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	www.wago.com/210-832

Tool

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

Operating tool



Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769



Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Downloads

Documentation

Bid Text

787-1011 X81 - Datei	2019 Jun 24	xml 7.1 kB	Download
787-1011 docx - Datei	2019 Jun 12	docx 21.3 kB	Download

Instruction Leaflet

Power Supply COMPACT	29-03-2021 2021 Dec 20	pdf 2.2 MB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1011	URL	Download
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CAE data

EPLAN Data Portal 787-1011	URL	Download
WSCAD Universe 787-1011	URL	Download
ZUKEN Portal 787-1011	URL	Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1011

[URL](#)

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Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 4 A output current

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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