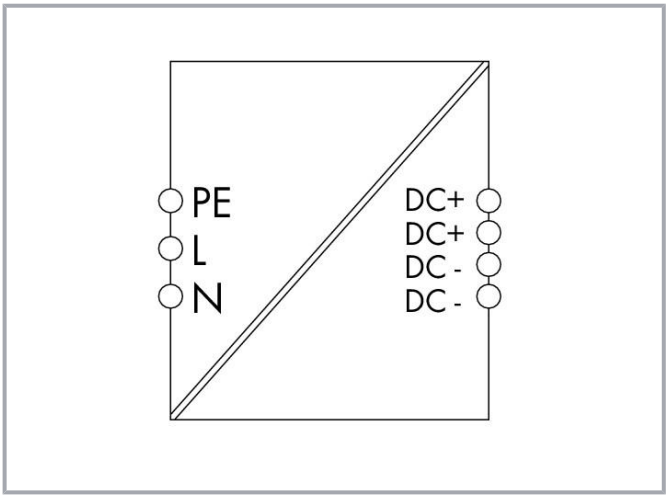
Data sheet | Item number: 787-1212

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED

www.wago.com/787-1212



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

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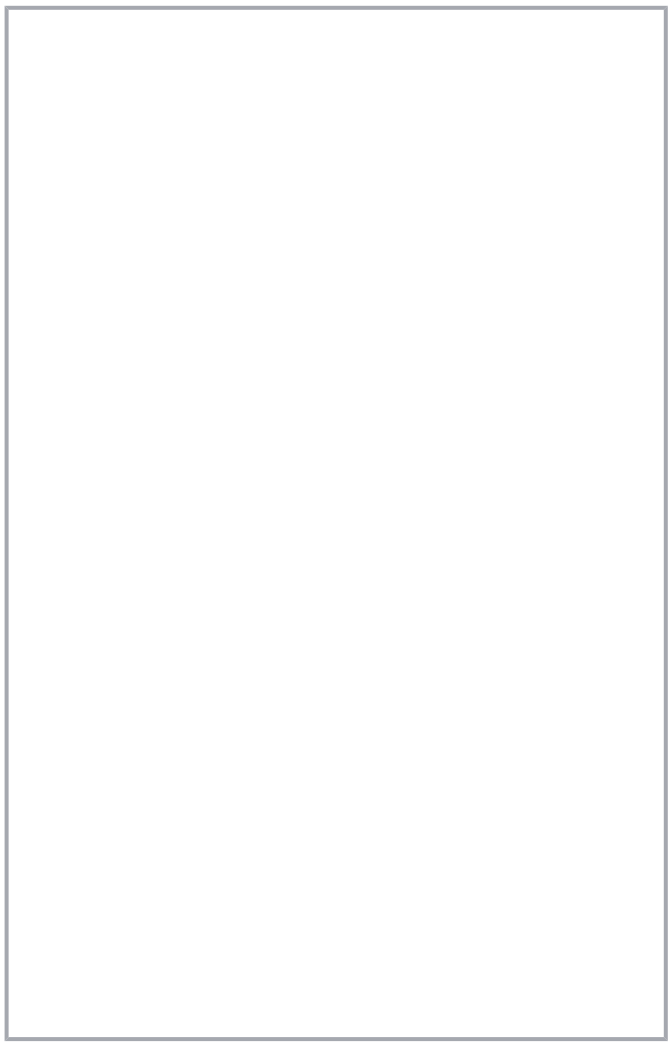

Item description

Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

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Data
Technical data

Input

Phases	1
Nominal input voltage $U_{i\ nom}$	1 x AC 100 … 240 V
Input voltage range	AC 85 … 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	≤ 1.5 A
Discharge current	≤ 0.25 mA
Inrush current	≤ 20 A
Power factor	≥ 0.5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 60 ms

Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Output voltage range	DC 22 … 26 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\ nom}$	2.5 A; 2 A (< 110 VAC)
Nominal output power	60 W
Control 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 LED DC OK (green)
Operation status indicator	Green LED (U_o)

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Efficiency/power losses

Power loss P_l	≤ 0.6 W (230 VAC; No load)
Power loss (max.) $P_{l\,(max.)}$	9 W (100 VAC / 24 VDC; 2.5 A)
Efficiency (typ.)	89 % (230 VAC); 87 % (110 VAC)

Circuit protection

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

Safety and protection

Isolation voltage (Pri.-Sec.)	DC 4.242 kV
Protection class	I
Protection type	IP20
Note on protection type	Per EN 60529
Resistance to reverse feed	≤ DC 35 V
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	≤ 31 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	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 inch

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Physical data

Width	72 mm / 2.835 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
Note (dimensions)	Depth: 48 mm (without cover)

Mechanical data

Mounting type	DIN-35 rail Screw mount (back/side)

Material data

Flammability class per UL94	V0
Fire load	0.168 MJ
Weight	288 g

Environmental requirements

Surrounding air temperature (operation)	-25 … 70 °C
Surrounding air temperature (storage)	-40 … 85 °C
Relative humidity	95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)

Standards and specifications

Conformity marking	CE
Standards/Specifications	EN 61204-3 EN 60335-1 EN 62368-1 UL 60950-1 UL 508

Commercial data

PU (SPU)	1 Stück
Packaging type	box
Country of origin	CN
GTIN	4055143908016
Customs tariff number	85044082900

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Approvals / Certificates

Country specific 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-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Optional accessories

Strain relief

Strain relief plate

	Item no.: 2092-1601 Gripping plate; light gray	www.wago.com/2092-1601

Ferrule

Ferrule

	Item no.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302	

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	Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/216-302

Tool

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

Manual

COMPACT Power; 1-phase DC 24 V / 2.5 A	V 1.0.1 21-Jan-2021	pdf 1.6 MB	Download

Bid Text

787-1212 X81 - Datei	04-Jul-2019	xml 7.4 kB	Download
787-1212 docx - Datei	12-Jun-2019	docx 21.1 kB	Download
ausschreiben.de 787-1212		URL	Download

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT DC 24 V, 2,5 A		pdf 1.6 MB	Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download

CAD/CAE-Data

CAD data

2D/3D Models 787-1212	URL	Download

CAE data

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WSCAD Universe 787-1212	URL	Download
ZUKEN Portal 787-1212	URL	Download
EPLAN Data Portal 787-1212	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1212 Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED	URL	Download

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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