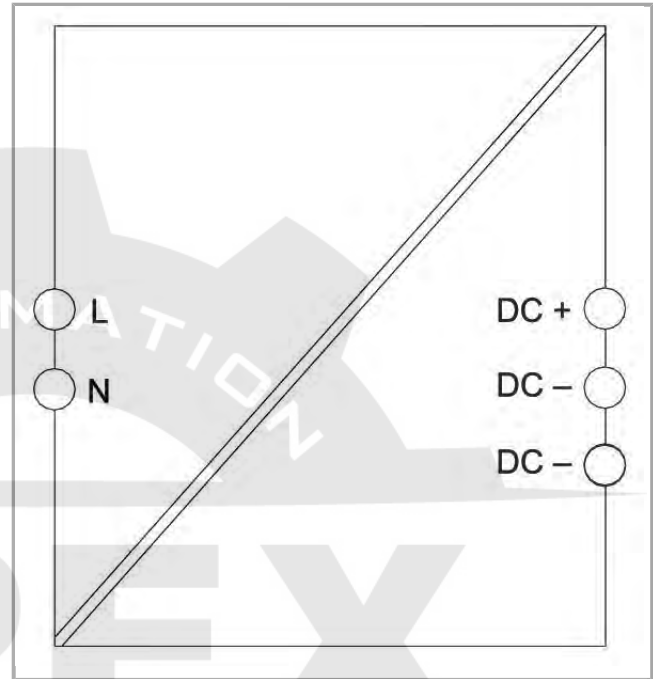


Data sheet | Item number: 787-1200

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

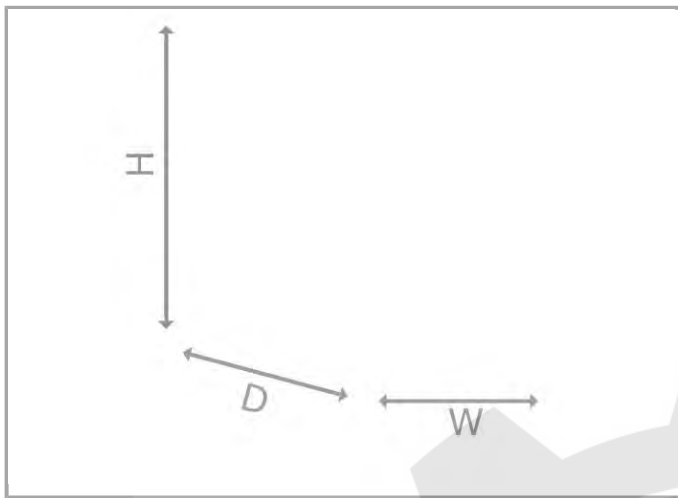


787-1200



RoHS
Compliant

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Item description

Features:

- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*® connection technology (tool-free)
- Series operation
- Electrically isolated output voltage (SELV) per EN 62368/UL 62368 and EN 60335-1; PELV per EN 60204

Data

Technical Data

Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	AC 100 240 V
Input voltage range	AC 90 264 V
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 63 Hz
Input current I_i	≤ 0.27 A (100 VAC; 0.5 ADC)
Discharge current	≤ 0.25 mA
Inrush current	≤ 30 A (NTC)
Power factor	≥ 0.5
Power factor correction (PFC)	None
Mains failure hold-up time	≥ 100 ms (230 VAC)

Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Nominal output current $I_{o\ nom}$	0.5 A
Nominal output power	12 W
Adjustment accuracy	$\leq 1\ %$
Deviation, dynamic load change 10 90 %	$\leq 1\ %$
Residual ripple	$\leq 100\ mV$ (peak-to-peak)
Overload behavior	shutdown and automatic restart in the event of a short circuit

Signaling and communication

Signaling	1 x LED operation status indicator (green)
Operation status indicator	LED green (U_o)

Efficiency/Power losses:

Power loss P_v	$\leq 0.2\ W$ (230 VAC; no load)
Max. power loss $P_{v\ max.}$	2.5 W (100 VAC / 24 VDC; 0.5 A)
Efficiency (typ.)	83 % (230 VAC; nominal load); 82 % (110 VAC; nominal load)

Fuse protection:

Internal fuse	T 1 A / 250 VAC
External fuse (required)	an external DC fuse required for DC input voltage
External fuse (recommended)	Circuit breakers 6 A (characteristic: C), 10 A (characteristic: B) or higher

Safety and protection:

Insulation voltage (PRI-SEC)	DC 4.242 kV
Protection class	II
Protection class	IP20 (per EN 60529)
Feedback voltage	$\leq DC\ 31\ V$
Overvoltage category	II
Transient protection, primary	Yes
Overvoltage protection, secondary	$\leq 31\ VDC$ (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	No
Series connection	Yes, for 2 devices of the same type
MTBF	> 700,000 h (per IEC 61709)

Connection data

Connection type (1)	Input
Connection technology	Push-in CAGE CLAMP®
WAGO terminal	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
Connection type (2)	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO terminal 2	picoMAX® 3.5, WAGO 2091 Series
Solid conductor (2)	0.2 1.5 mm² / 24 14 AWG
Fine-stranded conductor (2)	0.2 1.5 mm² / 24 14 AWG
Strip length (2)	8 9 mm / 0.31 0.35 inch

Geometrical Data

Width	18 mm / 0.7 inch
Height	90 mm / 3.543 inch
Depth	55 mm / 2.165 inch
Length from upper-edge of DIN-35 rail	52.5 mm / 2.067 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715) Screw mounting (back/side)
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Material Data

Flammability class per UL94	V2
Weight	63 g

Environmental Requirements

Surrounding air (operating) temperature	-25 70 °C
Surrounding air (storage) temperature	-40 85 °C
Relative humidity	20 90 % (no condensation permissible)
Derating	-2.6 %/K (> 55 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721; except for low air pressure)

Standards and specifications

Conformity marking	CE
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Standards/specifications

EN 61204-3; EN 60335-1; EN 62368; UL 62368; UL 508

Commercial data

Country of origin	CN
GTIN	4055143812184
Customs Tariff No.	85044082900

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 62368-1	E255815

Compatible products

tools

	Item no.: 2092-1630 Unlocking tool; orange	2092-1630
	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft	210-720
	Item no.: 210-769 SCREWDRIVER; green	210-769

ferrule

	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	216-201
	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	216-204
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	216-302



Downloads

Documentation

Manual

Power Supply 24 V	V 1.0.0	pdf 1.2 MB	Download
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Bid Text

787-1200 Netzgerät		docx 20.8 kB	Download
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Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON COMPACT Power DC 24 V, 0,5 A		pdf 2.1 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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Subject to changes.