

Data sheet | Item number: 787-1632/000-070

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact



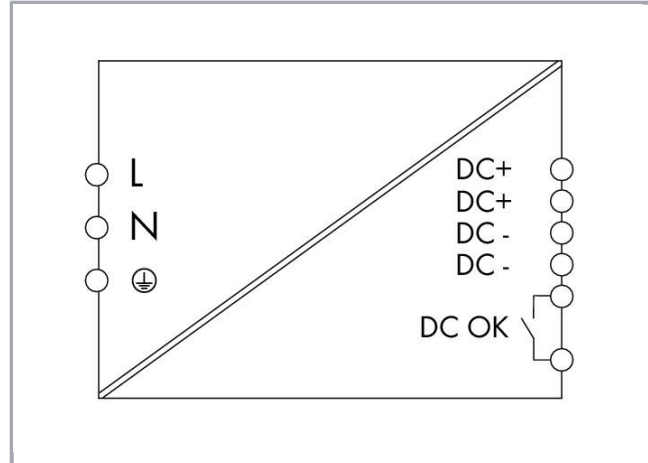
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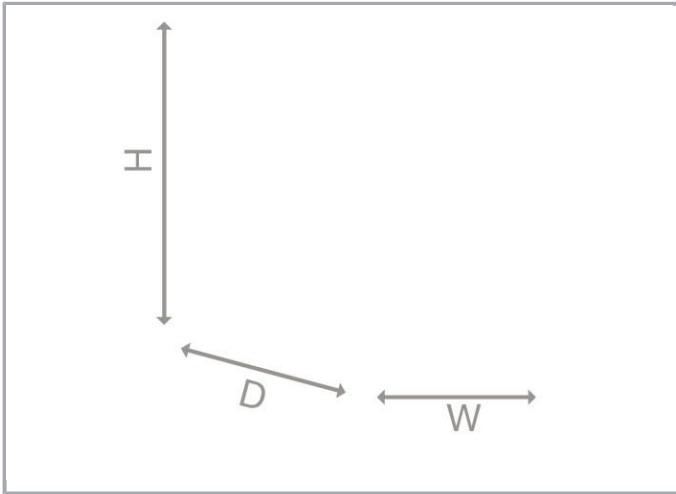
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Subject to changes. Please also observe the further product documentation!

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Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Contact (DC O K)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204
- Coated PCBs (coating: Bectron PL 1104 or Voltatex 2010), resistant to flowing mixed gas per ISA S71.04:1985, G3 Group A

Data

Technical Data

Input

Phases	1
Nominal input voltage $U_{i \text{ nom}}$	AC 100 ... 240 V
Input voltage range	AC 85 ... 264 V; DC 100 ... 372 V
Input voltage derating	-2.5 %/V (< 100 VAC); -1 %/V (< 130 VDC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	$\leq 1.25 \text{ A}$ (230 VAC); $\leq 2.74 \text{ A}$ (100 VAC)
Discharge current	$\leq 1 \text{ mA}$
Inrush current	$\leq 30 \text{ A}$
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 17 \text{ ms}$ (230 VAC); $\geq 15 \text{ ms}$ (100 VAC)

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Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Output voltage range	DC 23 ... 28.5 V (adjustable)
Factory preset	DC 24 V
Nominal output current $I_{o\ nom}$	10 A (24 VDC)
Nominal output power	240 W
Adjustment accuracy	$\leq 1\ %$
Residual ripple	$\leq 50\ mV$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\ nom}$ typ.
Overload behavior	Constant current

Signaling and communication

Signaling	1 x LED DC OK (green) 1 x DC OK contact (make contact; max. 30 V AC/DC, 1 A)
Operation status indicator	LED green (U_o)

Efficiency/Power losses:

Power loss P_l	$\leq 6.6\ W$ (230 VAC; no load); $\leq 24.4\ W$ (230 VAC; nominal load)
Max. power loss $P_{v\ max.}$	31.3 W (100 VAC / 24 VDC; 10 A)
Efficiency (typ.)	91 %

Fuse protection:

Internal fuse	T 6.3 A / 250 VAC
External fuse (required)	an external DC fuse required for DC input voltage
External fuse (recommended)	Circuit breakers 10 A, 16 A, characteristic: B or C

Safety and protection:

Insulation voltage (PRI-SEC)	DC 4.242 kV
Isolation voltage (PRI-GND)	DC 2.2 kV
Insulation voltage (SEC-GND)	DC 0.7 kV
Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	$\leq DC\ 35\ V$
Overvoltage category	II

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Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective circuit ≤ 40 VDC (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type (1)	Input/Output/Signaling
Connection technology	CAGE CLAMP®
WAGO terminal	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

Geometrical Data

Width	55 mm / 2.165 inch
Height	127 mm / 5 inch
Length from upper-edge of DIN-35 rail	172 mm / 6.772 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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Material Data

Weight	1140 g
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Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C (Device start at -40 °C type-tested)
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-5 %/K (> 60° C, 196 ... 264 VAC); -2.5 %/K (> 50° C, 85 ... 195 VAC)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

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Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950-1; EN 61204-3; UL 60950-1; UL 508

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143667944
Customs Tariff No.	85044082900

Counterpart

Compatible products

tools



Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769

Downloads

Documentation

Additional Information

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

Configuration and Commissioning Software

WAGO Line Length Calculation	1.3.5 Dec 9, 2019	exe 337.4 kB	Download
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Die WAGO Leitungslängenrechnung hilft bei der Planung der sekundärseitigen Absicherung von Leitungen an WAGO Stromversorgungen Pro (787-8xx) und Classic (787-16xx). Nach Auswahl eines Netzgerätes kann der gewünschte Leitungsquerschnitt und der zugehörige Leitungsschutzschalter ausgewählt werden. Das Software-Werkzeug berechnet dann die maximale Leitungslänge, bei der die Absicherung unter Berücksichtigung der Leitungs- und Übergangswiderstände ordnungsgemäß funktioniert. Die Auswahl einer Grundlast kann vom Anwender vorgenommen werden.

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CAD/CAE-Data

CAE data

EPLAN Data Portal 787-1632/000-070

URL

Download

Installation Notes

Product family

Classic

[Show all products from the family](#)

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