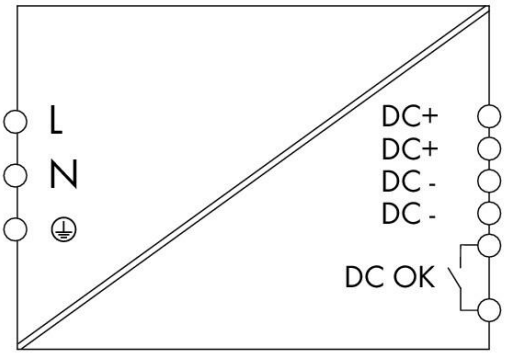
Data sheet | Item number: 787-1632/000-070

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

www.wago.com/787-1632/000-070

Picture differs from the item.

Similar to picture



Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
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- Coated PCBs (with 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 $U_{i\ nom}$	1 x AC 100 … 240 V
Input voltage range	1 x AC 85 … 264 V; DC 100 … 300 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	≤ 1.25 A (230 VAC); ≤ 2.74 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC); ≥ 15 ms (100 VAC)

Output

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

Signaling and Communication

Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses

Power loss P_l	≤ 6.6 W; ≤ 24.4 W (230 VAC; nominal load)
Power loss (max.) $P_{l\ (max.)}$	31.3 W (100 VAC / 24 VDC; 10 A)
Efficiency (typ.)	91 %

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Circuit protection

Internal fuse	T 6.3 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C

Safety and protection

Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 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/Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inches

Physical data

Width	55 mm / 2.165 inches
Height	127 mm / 5 inches
Depth from upper-edge of DIN-rail	172 mm / 6.772 inches

Mechanical Data

Mounting type	DIN-35 rail

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Material Data

Fire load	0.3 MJ
Weight	1140 g

Environmental requirements

Ambient temperature (operation)	-25 … +70 °C (Device starts at −40 °C (type-tested))
Ambient temperature (storage)	-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)

Standards and specifications

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

Commercial data

eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143667944
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC	TP TC 004/2011,TP TC 020/2011	EAC RU C-

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EAC	Brjansker Zertifizierungsstelle	DE.AM02.B.00089_19

Declarations of conformity and manufacturer's declarations

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

Optional accessories

Tool

Operating tool

Item no.: 210-769
SCREWDRIVER; green
www.wago.com/210-769

Mounting adapter

DIN-rail adapter

Item no.: 787-897/000-010
Carrier rail adapter made of zinc die-cast; horizontal mounting of 787-16xx (TS35)
www.wago.com/787-897/000-010

Downloads

Documentation

Bid Text

787-1632/000-070 X81 - Datei	2019 Jul 4	xml 7.5 kB	Download
787-1632/000-070 docx - Datei	2019 Jun 4	docx 21.5 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgung; Classic; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 10/20 A; TopBoost; DC-OK-Kontakt	24.07.2017 2022 Mar 4	pdf 1.7 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

Engineering-Software

Configuration and Commissioning Software

WAGO Line Length Calculation Die WAGO Leitungslaengenrechnung hilft bei der Planung der sekundärseitigen Absicherung von Leitungen an WAGO Stromversorgungen Pro (787-8xx) unde 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.	1.3.5 2019 Dec 9	exe 337.4 kB	Download

CAD/CAE-Data

CAE data

EPLAN Data Portal 787-1632/000-070	URL	Download
EPLAN Data Portal 787-1632/000-070	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1632/000-070 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost; DC OK contact	URL	Download

Installation Notes

Product family

Classic

EPSITRON® CLASSIC POWER: The Robust Power Supply – with Integrated TopBoost (Optional)

Show all products from the family

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