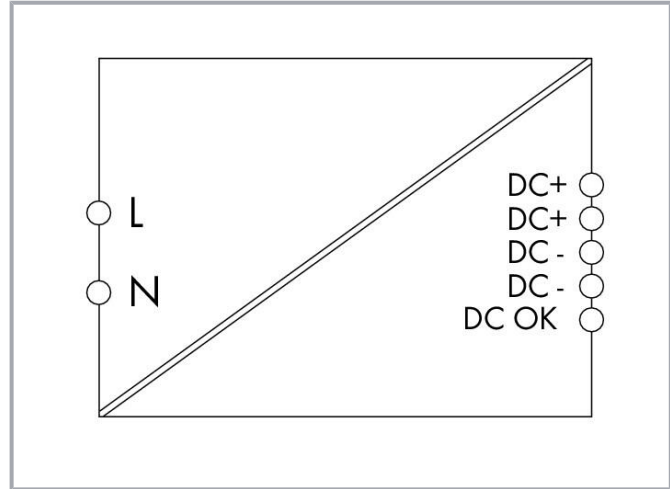


Data sheet | Item number: 787-1616/000-1000

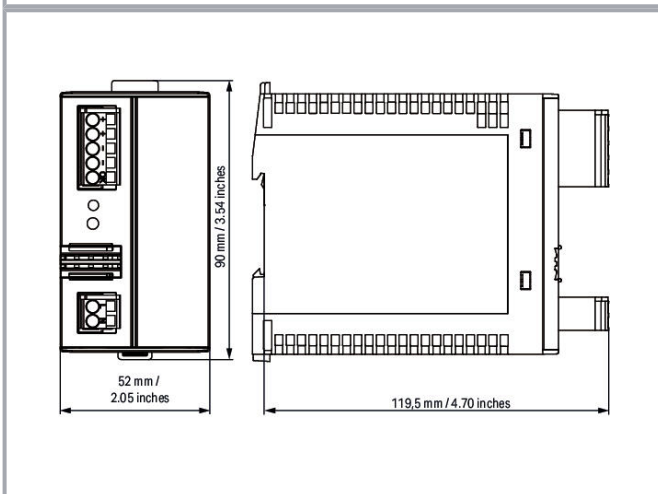
Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 3.8 A output current; NEC Class 2; DC OK signal



www.wago.com/787-1616/000-1000



Similar to picture



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
- Encapsulated for use in control cabinets
- Limited Power Source (LPS) per NEC Class 2
- Bounce-free switching signal (DC OK)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
- GL approval, also suitable for EMC 1 in conjunction with 787-980 Filter Module

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	-2.5 %/V (< 95 VAC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz
Input current I_i	≤ 0.95 A (240 VAC); ≤ 1.73 A (100 VAC)
Inrush current	≤ 30 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 80 ms (230 VAC); ≥ 15 ms (100 VAC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 23 ... 28.5 V (adjustable)
Nominal output current $I_{o\text{ nom}}$	3.8 A (24 VDC)
Nominal output power	91.2 W
Residual ripple	≤ 20 mV (peak-to-peak)
Current limitation	3.8 A (3.2 A at $U_o > 25$ VDC); LPS per NEC Class 2
Overload behavior	Constant current

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Signaling and Communication

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

Efficiency/power losses

Power loss P_l	$\leq 2.8 \text{ W}; \leq 14 \text{ W}$ (230 VAC; nominal load)
Power loss (max.) $P_{l(max)}$	20 W (100 VAC / 91 W)
Efficiency (typ.)	87 %

Circuit protection

Internal fuse	T 4 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

Protection class	II
Protection type	IP20; per EN 60529
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit $\leq 40 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 500,000 \text{ h}$ (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 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 inches

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Physical data

Width	52 mm / 2.047 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	119 mm / 4.685 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Weight	384 g
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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	-3 %/K (> 50 °C)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 EN 60335-1 UL 60950-1 UL 508 UL 1310 DNV

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
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

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

Country of origin	DE
GTIN	4055143060462
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 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 1310	E471180

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNVGL-CG-339, Dec. 2019	TAA00002YC

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Optional accessories

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

Marking accessories

Marking strip



Item no.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110



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

Marker



Item no.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-115



Item no.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501



Item no.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/793-5501

Downloads

Documentation

Bid Text

787-1616/000-1000

2019 Jul 4

docx
21.4 kB

Download

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docx - Datei

787-1616/000-1000 X81 - Datei	2019 Jul 4	xml 7.2 kB	Download
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Instruction Leaflet

Primär getaktete Stromversorgungen CLASSIC DC 24 V, 3,8 A, LPS	2021 May 17	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
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CAD/CAE-Data

CAE data

EPLAN Data Portal 787-1616/000-1000		URL	Download
WSCAD Universe 787-1616/000-1000		URL	Download
ZUKEN Portal 787-1616/000-1000		URL	Download
WSCAD Universe 787-1616/000-1000		URL	Download
EPLAN Data Portal 787-1616/000-1000		URL	Download

CAD data

2D/3D Models 787-1616/000-1000		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1616/000-1000 Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 3.8 A output current; NEC Class 2; DC OK signal		URL	Download
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Installation Notes

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Product family

Classic

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

[Show all products from the family](#)

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