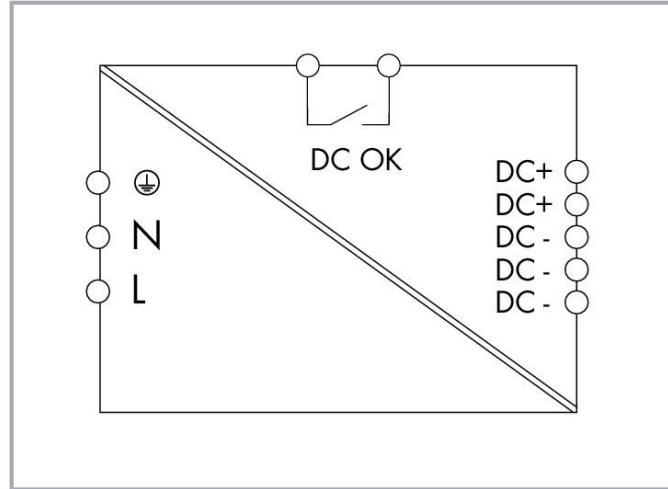


Data sheet | Item number: 787-736

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact; 6,00 mm²



www.wago.com/787-736



Item description

Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i \text{ nom}}$	1 x AC 110 ... 240 V
Input voltage range	1 x AC 90 ... 264 V; DC 130 ... 373 V
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 ... 63 Hz; 0 Hz

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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Input current I_i	$\leq 6 \text{ A (230 VAC)}; \leq 12 \text{ A (115 VAC)}$
Inrush current	$\leq 30 \text{ A}$
Power factor	$\geq 0.94 \text{ (230 VAC)}; \geq 0.98 \text{ (115 VAC)}$
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 17 \text{ ms (230 VAC)}$

Output

Nominal output voltage $U_{o \text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Nominal output current $I_{o \text{ nom}}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	$\leq 100 \text{ mV (peak-to-peak)}$
Overload behavior	Constant power (in overload range: $1.15 \dots 1.4 \times I_{o \text{ nom}}$); Shutdown and automatic restart in the event of a short circuit

Signaling and Communication

Signaling	1 x LED DC OK (green) 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)

Efficiency/power losses

Power loss P_l	$\leq 107 \text{ W (230 VAC; nominal load)}$
Efficiency (typ.)	90 %

Circuit protection

Internal fuse	T 20 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 13 A, 16 A, 20 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

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



Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 250,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2706 Series
Solid conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Strip length	11 ... 12 mm / 0.43 ... 0.47 inches
Connection type 2	Output
Connection technology 2	CAGE CLAMP®
WAGO connector 2	WAGO 2716 Series
Solid conductor 2	1.5 ... 16 mm ² / 16 ... 6 AWG
Fine-stranded conductor 2	1.5 ... 16 mm ² / 16 ... 6 AWG
Strip length 2	12 ... 13 mm / 0.47 ... 0.51 inches

Physical data

Width	170 mm / 6.69 inches
Height	136 mm / 5.354 inches
Depth from upper-edge of DIN-rail	150 mm / 5.91 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Weight	74.1 g
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Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
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Subject to changes. Please also observe the further product documentation!



Ambient 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 62368-1 EN 61204-3 EN 61000-6-2 EN 61000-6-3 UL 60950-1 UL 508 SEMI F47

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
Country of origin	CN
GTIN	4050821748250
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Bulgaria)	a62607a7-2856-4d66-af7d-40c67b37a0f5
SCIP notification number (Czech Republic)	6a5b31a3-c7f4-42d8-9112-e5ab02ad13dd

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
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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

Declarations of conformity and manufacturer's declarations

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

Optional accessories

Tool

Operating tool



Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769

Downloads

Documentation

Bid Text

787-736 X81 - Datei	2019 Jul 12	xml 7.2 kB	Download
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787-736 docx - Datei	2019 Jul 12	docx 21.6 kB	Download
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Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power DC 24 V, 40 A	V 1.7 2020 Dec 21	pdf 381.0 kB	Download
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Additional Information

Disposal and Recycling	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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Electrical and electronic equipment, Batteries, Packaging

CAD/CAE-Data

CAD data

2D/3D Models 787-736	URL	Download
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CAE data

EPLAN Data Portal 787-736	URL	Download
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WSCAD Universe 787-736	URL	Download
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ZUKEN Portal 787-736	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-736	URL	Download
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Installation Notes

Product family

EPSITRON ECO Power
[Show all products from the family](#)

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