

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

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

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We are always happy to take your call at +49 (571) 887-44222.

- 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
Input current I_i	≤ 6 A (230 VAC); ≤ 12 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 17 ms (230 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	≤ 1 %
Residual ripple	≤ 100 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)

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



Efficiency/power losses

Power loss P_1	≤ 107 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
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

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



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
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721)

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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box

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



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
	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	-	-
	MFD with product reference WAGO GmbH & Co. KG	-	-

Optional accessories**Tool**

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

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Downloads

Documentation

Bid Text

787-736 X81 - Datei	2019 年7月12 日	xml 7.2 kB	Download
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787-736 docx - Datei	2019 年7月12 日	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 年12月21 日	pdf 381.0 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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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 Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact; 6,00 mm ²	URL	Download
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Installation Notes

Product family

EPSITRON ECO Power

[Show all products from the family](#)

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