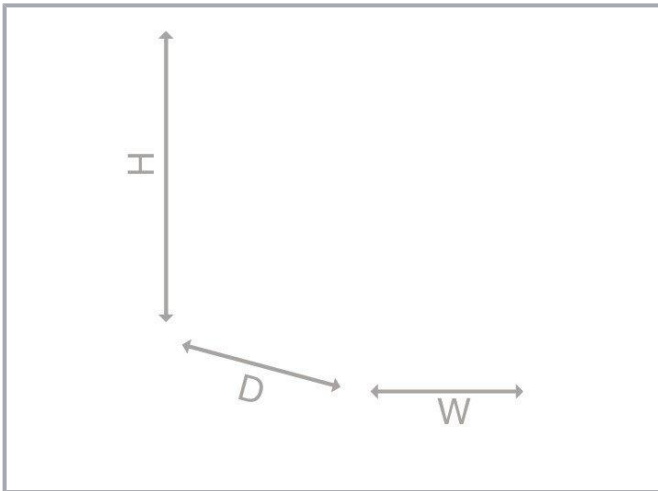
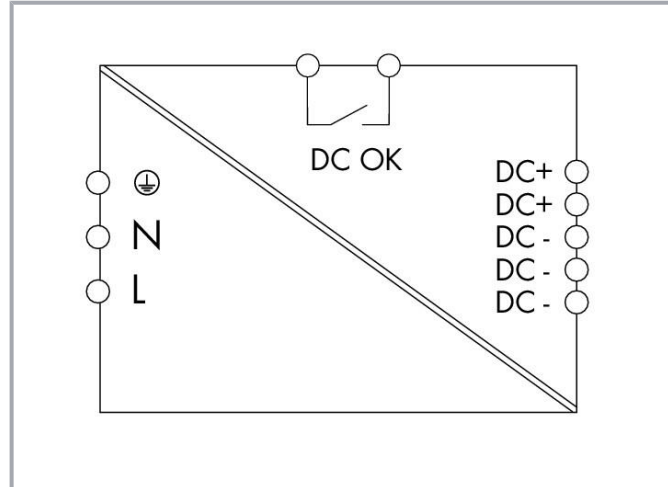


## Data sheet | Item number: 787-736

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact; 6,00 mm<sup>2</sup>



[www.wago.com/787-736](http://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

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  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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- 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)
Nominal output current $I_{o\text{ nom}}$	40 A (24 VDC)
Nominal output power	960 W
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x $I_{o\text{ nom}}$ ); 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 $P_l$	≤ 107 W (230 VAC; nominal load)
Efficiency (typ.)	90 %

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



## 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 <sup>2</sup> / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm <sup>2</sup> / 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 <sup>2</sup> / 16 ... 6 AWG
Fine-stranded conductor 2	1.5 ... 16 mm <sup>2</sup> / 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

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Depth from upper-edge of DIN-rail	150 mm / 5.91 inches
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## Mechanical Data

Mounting type	DIN-35 rail
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## Material Data

Weight	3500 g
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## Environmental requirements

Ambient temperature (operation at $U_N$ )	-25 ... +70 °C
Surrounding air 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

## 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



## Approvals / Certificates

### General approvals

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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

## Optional accessories

### Tool

Operating tool



Item no.: 210-769  
SCREWDRIVER; green

[www.wago.com/210-769](http://www.wago.com/210-769)

## Downloads

### Documentation

#### Bid Text

787-736 X81 - Datei	Jul 12, 2019	xml 7.2 kB	Download
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787-736 docx - Datei	Jul 12, 2019	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 Dec 21, 2020	pdf 381.0 kB	Download
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#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 Aug 18, 2022	pdf 2.2 MB	Download
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## CAD/CAE-Data

### CAD data

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2D/3D Models 787-736

[URL](#) [Download](#)

#### CAE data

EPLAN Data Portal 787-736

[URL](#) [Download](#)

WSCAD Universe 787-736

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ZUKEN Portal 787-736

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### Environmental Product Compliance

#### Compliance Search

Environmental Product Compliance 787-736

[URL](#) [Download](#)

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 40 A output current; DC OK contact; 6,00 mm<sup>2</sup>

### Installation Notes

### Product family

**EPSITRON ECO Power**

[Show all products from the family](#)

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