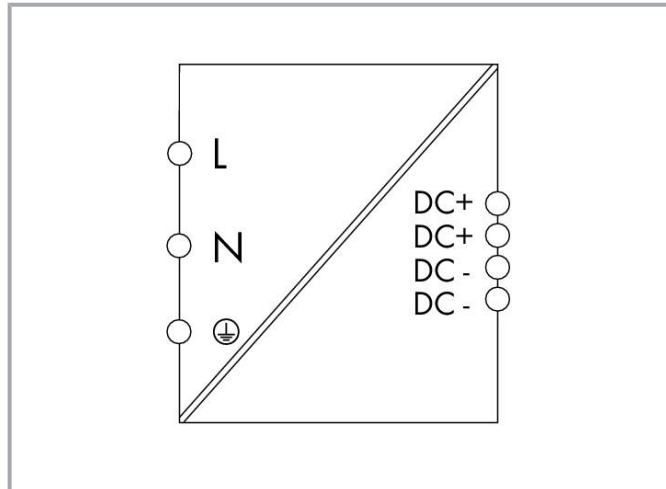
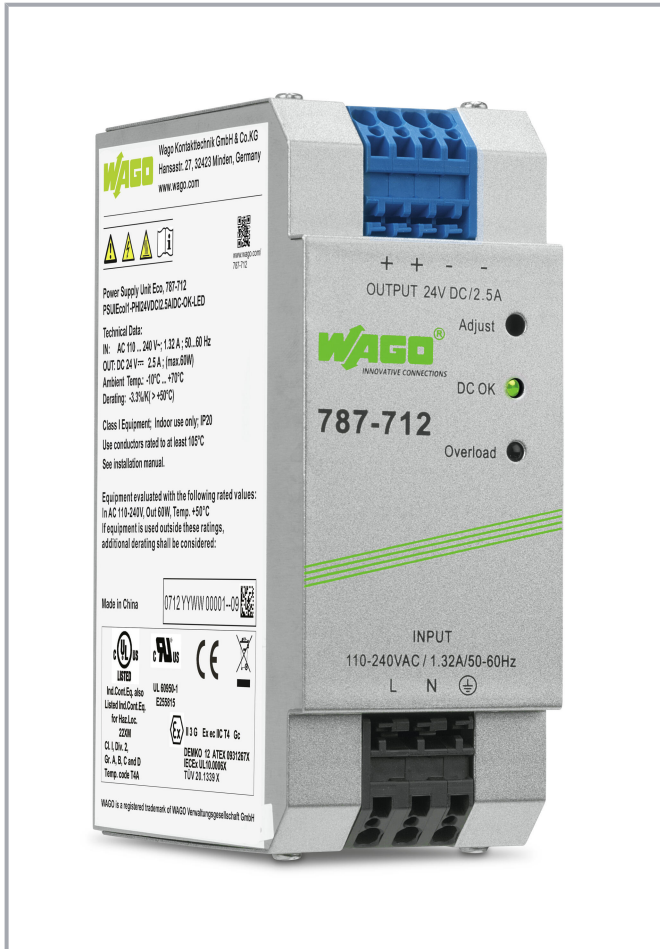


## Data sheet | Item number: 787-712

Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current;  
DC-OK LED; 4,00 mm<sup>2</sup>



[www.wago.com/787-712](http://www.wago.com/787-712)



## Item description

### Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- 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!

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**Data****Technical data****Input**

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V 1 x AC 110 ... 240 V
Input voltage range	1 x AC 90 ... 264 V; DC 90 ... 373 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current $I_i$	$\leq 0.7$ A (230 VAC); $\leq 1.2$ A (115 VAC)
Inrush current	$\leq 30$ A
Power factor	$\geq 0.5$ (230 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 20$ 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 $I_{o\text{ nom}}$	2.5 A (24 VDC)
Nominal output power	60 W
Residual ripple	$\leq 100$ 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)

**Efficiency/power losses**

Power loss $P_i$	$\leq 8.3$ W (230 VAC; Nominal load)
Power loss (max.) $P_{i\text{ (max.)}}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
Efficiency (typ.)	86 % (230 VAC)

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



## Circuit protection

Internal fuse	F 2.5 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
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	480,000 h (per IEC 61709)

## Connection data

Connection type 1	Input/Output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 745 Series
Solid conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Note (conductor cross-section)	12 AWG: THHN, THWN

## Physical data

Width	50 mm / 1.969 inches
Height	92 mm / 3.622 inches
Depth from upper-edge of DIN-rail	136 mm / 5.354 inches

## Mechanical Data

Mounting type	DIN-35 rail
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Subject to changes. Please also observe the further product documentation!



## Material Data

Fire load	4.4 MJ
Weight	470 g

## Environmental requirements

Ambient temperature (operation)	-10 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	95% (no condensation permissible)
Derating	-3.3 %/K (> 50 °C; 230 VAC)

## Standards and specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 cURus 60950-1 cULus 508 ANSI/ISA 12.12.01 (Class I Div. 2) ATEX IEC Ex 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	4045454908195
Customs tariff number	85044083900

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	a447b5ed-bfab-4354-ad87-91c72437e9ed



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

SCIP notification number (Czech Republic)

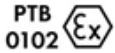




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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

### Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	ATEX UL International Demko A/S	EN 60079-0	12 ATEX 0931267 X
	INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV20.1339X
	UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX001X_ec
	UL UL International Germany GmbH	IEC 60079-0	IECEX UL 10.0006 X
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5

### Optional accessories

#### Tool

Operating tool

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Item no.: 210-769  
SCREWDRIVER; green

[www.wago.com/210-769](http://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](http://www.wago.com/210-720)

## Downloads

### Documentation

#### Bid Text

787-712 docx - Datei	2019 Jul 12	docx 21.5 kB	Download
787-712 X81 - Datei	2019 Jul 12	xml 7.0 kB	Download

#### Instruction Leaflet

CCC Ex (Additional information) 787-***	2023 Apr 26	pdf 130.3 kB	Download
Primary Switch Mode Power Supply ECO-Power 24 VDC, 2.5 A	V 2.2.7 2020 Dec 21	pdf 344.7 kB	Download

#### 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 787-712		URL	Download
WSCAD Universe 787-712		URL	Download
ZUKEN Portal 787-712		URL	Download

### CAD data

#### 2D/3D Models 787-712

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[URL](#)

[Download](#)

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-712

[URL](#)

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Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK  
LED; 4,00 mm<sup>2</sup>

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## Installation Notes

### Product family

**EPSITRON ECO Power**

[Show all products from the family](#)

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

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