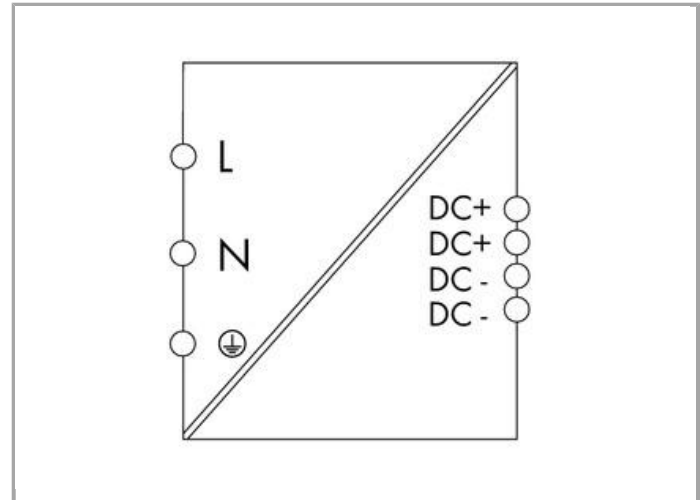
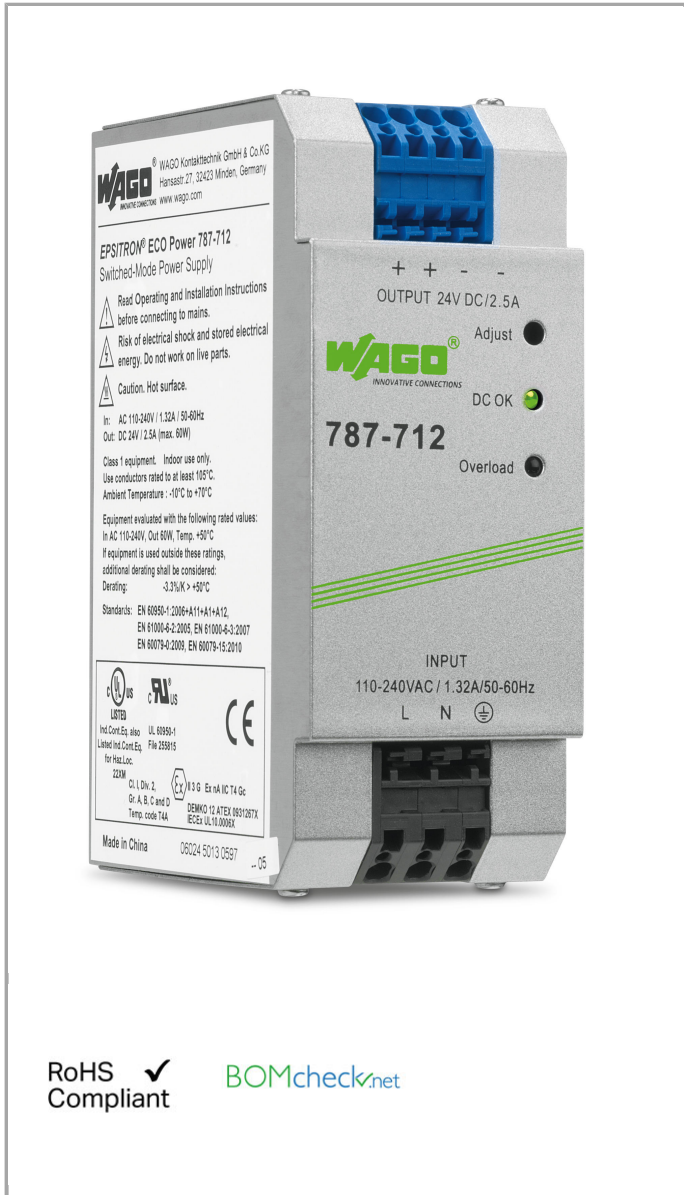


## Data sheet | Item number: 787-712

Switched-mode power supply; EPSITRON® ECO Power; 1-phase; 24 VDC output voltage; 2.5 A output current



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



### Item description

#### Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

## Data

## Technical Data

## Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	110 ... 240 VAC
Input voltage range	85 ... 264 VAC; 130 ... 373 VDC
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)
Discharge current	$\leq 1$ mA
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 $U_{o\text{nom}}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC (adjustable)
Factory preset	24 VDC
Nominal output current $I_{o\text{nom}}$	2.5 A (24 VDC)
Nominal output power	60 W
Adjustment accuracy	$\leq 1$ %
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 LED overload (red)
Operation status indicator	LED green (24 VDC OK) LED red (overload)

## Efficiency/Power losses:

Power loss $P_v$	8.3 W (230 VAC; nominal load)
Max. power loss $P_{v\text{max}}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
Efficiency	86 % (230 VAC)



### Fuse protection:

Internal fuse	F 2.5 A / 250 VAC
External fuse (required)	an external DC fuse required for DC input voltage
External fuse (recommended)	Circuit breakers 10 A, 16 A, characteristic: B or C

### Safety and protection:

Insulation voltage (PRI-SEC)	4.242 kV DC
Isolation voltage (PRI-GND)	2.2 kV DC
Insulation voltage (SEC-GND)	0.7 kV DC
Protection class	I
Degree of protection	IP20 (per EN 60529)
Feedback voltage	≤ 28VDC
Overtoltage category	II
Transient protection, primary	Varistor
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	480,000 h (per IEC 61709)

### Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®
WAGO terminal	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 Inch

### Geometrical Data

Width	50 mm / 1.969 inch
Height	92 mm / 3.622 inch
Length from upper-edge of DIN-35 rail	136 mm / 5.354 inch

### Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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### Material Data

Fire load	4.4 MJ
Weight	470 g

## Environmental Requirements

Surrounding air (operating) temperature	-10 ... 70 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	-3.3 %/K (> 50 °C; 230VAC)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

## Standards and specifications



Conformity marking	CE
Standards/specifications	EN 60950; EN 61204-3; cURus 60950; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

## Commercial data



Country of origin	CN
GTIN	4045454908195
Customs Tariff No.	85044082900
Product Group	6 (Interface Electronics)

## Compatible products




### tools















	<b>Item no.: 210-720</b> Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>
	<b>Item no.: 210-769</b> SCREWDRIVER	<a href="http://www.wago.com/210-769">www.wago.com/210-769</a>

### Marking accessories

	<b>Item no.: 210-831</b> Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
	<b>Item no.: 210-832</b> Marking strips; on reel; 3 mm wide; plain; Self-adhesive	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>

### ferrule

	<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
	<b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>
	<b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
	<b>Item no.: 216-224</b>	

	Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated	<a href="http://www.wago.com/216-224">www.wago.com/216-224</a>
	<b>Item no.: 216-241</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-241">www.wago.com/216-241</a>
	<b>Item no.: 216-242</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-242">www.wago.com/216-242</a>
	<b>Item no.: 216-243</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-243">www.wago.com/216-243</a>
	<b>Item no.: 216-244</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-244">www.wago.com/216-244</a>
	<b>Item no.: 216-246</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-246">www.wago.com/216-246</a>
	<b>Item no.: 216-262</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-262">www.wago.com/216-262</a>
	<b>Item no.: 216-263</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-263">www.wago.com/216-263</a>
	<b>Item no.: 216-264</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-264">www.wago.com/216-264</a>
	<b>Item no.: 216-266</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-266">www.wago.com/216-266</a>
	<b>Item no.: 216-284</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-284">www.wago.com/216-284</a>
	<b>Item no.: 216-286</b> Ferrule; Sleeve for 2.5 mm <sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	<a href="http://www.wago.com/216-286">www.wago.com/216-286</a>
	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>

## Downloads

## Documentation

## Bid Text

787-712

Jan 14, 2016

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Stromversorgung EPSITRON

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## Instruction Leaflet



Primary Switch Mode Power Supply EPSITRON-ECO-Power  
24 VDC, 2.5 A

V 2.2.6  
Jul 26, 2017

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