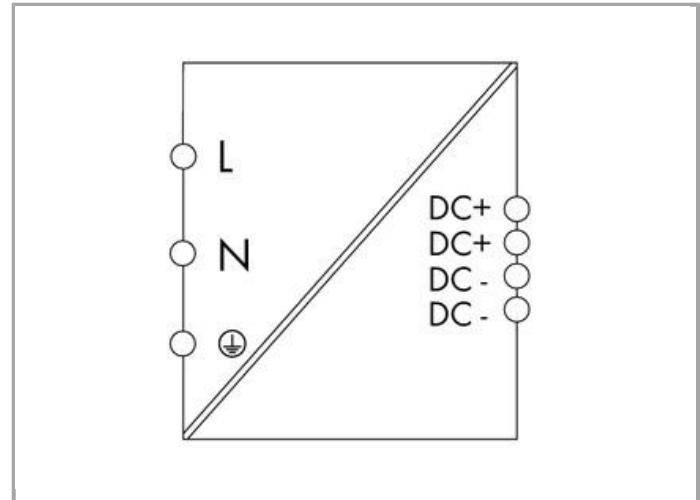


Data sheet | Item number: 787-722

Switched-mode power supply; EPSITRON® ECO Power; 1-phase; 24 VDC output voltage; 5 A output current



www.wago.com/787-722



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	$\leq 1 \text{ A}$ (230 VAC); $\leq 2 \text{ A}$ (115 VAC)
Discharge current	$\leq 3.5 \text{ mA}$
Inrush current	$\leq 30 \text{ A}$
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Aktive
Mains failure hold-up time	$\geq 20 \text{ ms}$ (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 $I_{o \text{ nom}}$	5 A (24 VDC)
Nominal output power	120 W
Adjustment accuracy	$\leq 1 \%$
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 LED overload (red)
Operation status indicator	LED green (24 VDC OK) LED red (overload)

Efficiency/Power losses:

Power loss P_v	19.5 W (230 VAC; nominal load)
Max. power loss $P_{v \text{ max}}$	23.5 W (110 VAC / 24 VDC; 5.5 A)
Efficiency	86 % (230 VAC)



Fuse protection:

Internal fuse	F 3.15 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 ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm ² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 Inch

Geometrical Data

Width	75 mm / 2.953 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	4.8 MJ
Weight	850 g

Environmental Requirements

Surrounding air (operating) temperature	-10 ... 60 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	≤ 95 % (no condensation permissible)
Derating	-5.33 %/K (> 45 °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	4045454908188
Customs Tariff No.	85044082900
Product Group	6 (Interface Electronics)














Compatible products

Marking accessories

	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive	www.wago.com/210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive	www.wago.com/210-832

ferrule

	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / AWG 22; insulated; electro-tin plated	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / AWG 20; insulated; electro-tin plated	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated	www.wago.com/216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / AWG 22; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-242

	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-243
	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-244
	Item no.: 216-246 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-246
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / AWG 20; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-262
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-263
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-264
	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-266
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-284
	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	www.wago.com/216-286
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / AWG 24; insulated; electro-tin plated	www.wago.com/216-322
tools		
	Item no.: 210-720 Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm	www.wago.com/210-720
	Item no.: 210-769 SCREWDRIVER	www.wago.com/210-769

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Stromversorgung EPSITRON

Instruction Leaflet



Primary Switch Mode Power Supply EPSITRON-ECO-Power
24 VDC, 5 A

V 2.2.6
Jul 26, 2017

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Additional Information

Disposal; Electrical and electronic equipment, Packaging

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CAD data

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Product family

EPSITRON ECO Power

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Subject to changes.

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