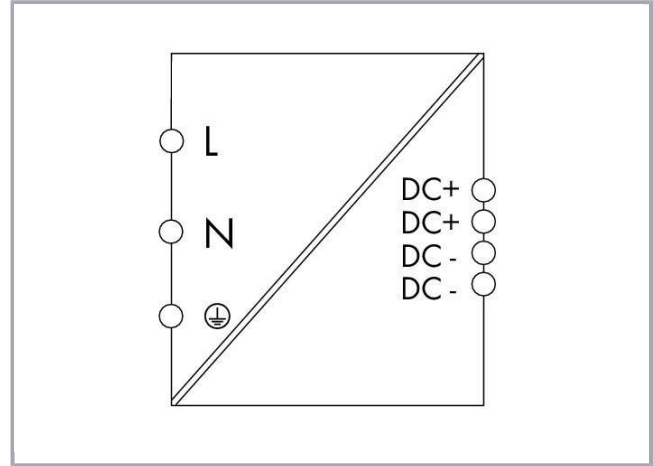
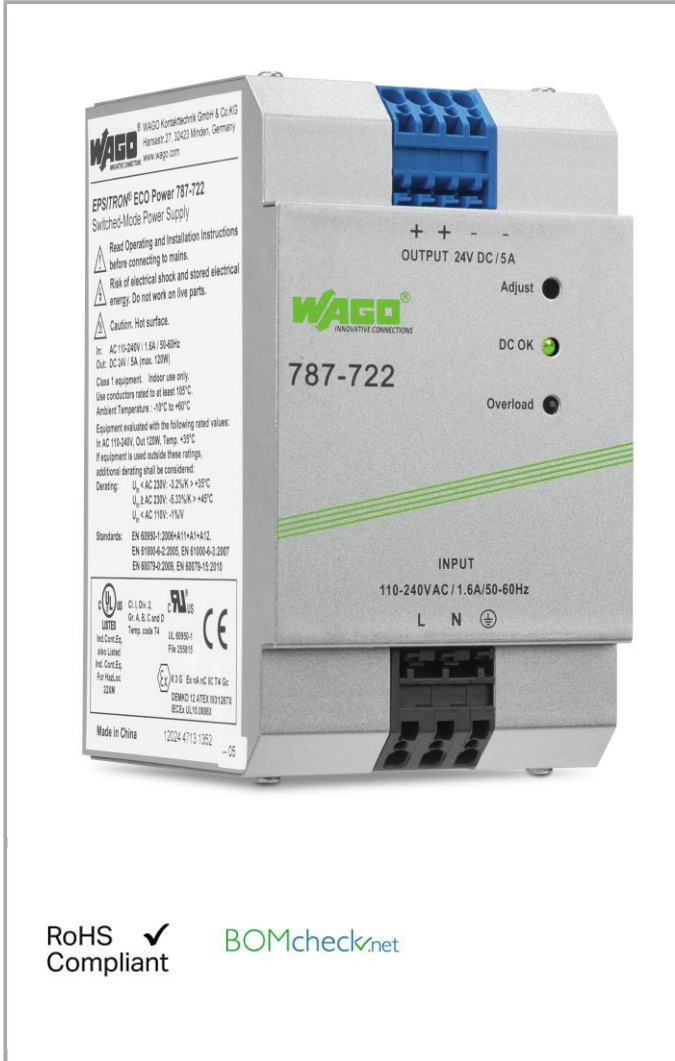
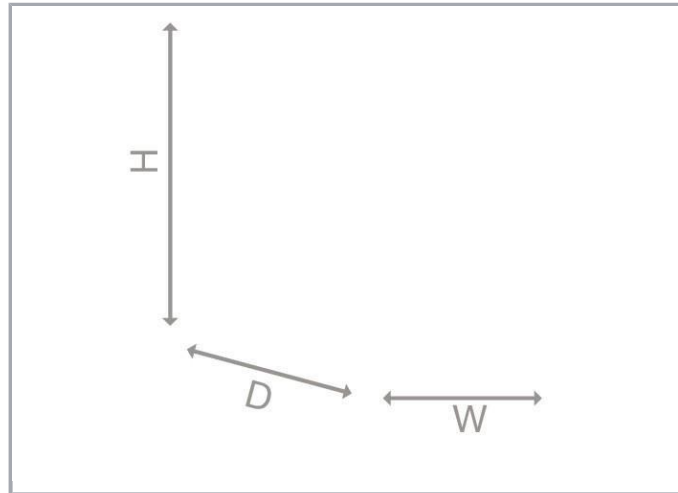


Data sheet | Item number: w787-722

Switched-mode power supply; EPSITRON® ECO Power; 1-phase; 24 V DC output voltage; 5 A output current; 4.00 mm²

<https://domat-int.com/en/downloads/data-sheets>





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 UL 60950-1; PELV per EN 60204

Technical data - Input

Phases	1
Nominal input voltage $U_{i\ nom}$	AC 110 ... 240 V
Input voltage range	AC 85 ... 264 V; DC 90 ... 373 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	≤ 1 A (230 VAC); ≤ 2 A (115 VAC)
Discharge current	≤ 3.5 mA
Inrush current	≤ 30 A
Power factor	≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 VAC)

Technical data - Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
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Output voltage range	DC 22 ... 28 V (adjustable)
Factory preset	DC 24 V
Nominal output current $I_{o\text{ nom}}$	5 A (24 VDC)
Nominal output power	120 W
Adjustment accuracy	$\leq 1\%$
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 LED overload (red)
Operation status indicator	LED green (24 VDC OK) LED red (overload)

Efficiency/Power losses

Power loss P_I	≤ 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 (typ.)	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)	DC 4.242 kV
Isolation voltage (PRI-GND)	DC 2.2 kV
Insulation voltage (SEC-GND)	DC 0.7 kV
Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	\leq DC 28 V
Overvoltage 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
Note (conductor cross-section)	12 AWG: THHN, THWN

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 62368-1; EN 61204-3; cURus 60950-1; cULus 508; ANSI/ISA 12.12.01 (Class I Div. 2); ATEX; IEC Ex

Commercial data



Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4045454908188
Customs Tariff No.	85044082900

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5

UL-Approvals

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

Subject to changes.

Domat control system

WAGO Kontakttechnik GmbH & Co. KG (manufacturer)

Do you have any questions about our products?

We are always happy to take your call at +420 461 100 666.