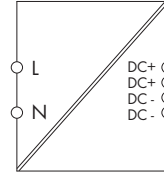


Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Technical Data

Input:

Nominal input voltage V_i nom	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: I_a max. 2.0 A
	< 90 VAC: I_a max. 1.8 A
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	1.4 A at 110 VAC / 0.6 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC

Output:

Nominal output voltage V_o nom	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current I_o	2.5 A at 24 VDC
	max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)

Efficiency / power losses:

Efficiency	88 % typ.
Power loss P_v	2.2 W (230 VAC/no load),
	8.5 W (230 VAC/rated load)
Max. power loss P_v	10.5 W typ. (100 VAC / 24 VDC, 2.5 A)

Fuse protection:

Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	characteristic: B or C
	An external DC fuse is required for the DC
	input voltage

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 VDC / 2.5A	787-1012	1

Technical Data

Environmental requirements:

Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

Safety and protection:

Enclosure	Plastic, light gray, Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 30 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500000 h

Connection and type of mounting:

Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)

Dimensions and weight:

Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	255 g

Standards and approvals:

Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508, GL
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