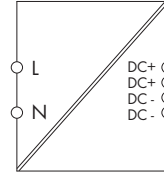


Switched-Mode Power Supply, 1-Phase

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. 1.5 A
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	0.6 A at 110 VAC / 0.4 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	12 VDC (SELV)
Output voltage range	10.8 ... 18 VDC adjustable
Output current I_o	2 A at 12 VDC 0.75 A at 18 VDC max. 1.4 A (12 VDC) in any mounting position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 150 mV (peak-to-peak) at 20 MHz
Current limitation	$1.1 \times I_o$ typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)

Efficiency / power losses:

Efficiency	80 % typ.
Power loss P_V	2.6 W (230 VAC/no load), 6.0 W (230 VAC/rated load)
Max. power loss P_V	6 W typ. (100 VAC / 12 VDC, 2 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, 12 VDC / 2A	787-1001	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	< 30 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 20 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	54 x 89 x 59 Length: 55 mm, from upper-edge of DIN 35 rail
Weight	180 g

Standards and approvals:

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