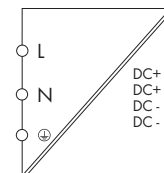


Switched-Mode Power Supply

EPSITRON® CLASSIC Power



- Primary switch mode power supply unit
- Prepared for class I equipment
- Parallel operation, series connection possible
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Technical Data

Input:

Nominal input voltage V_i nom	110 ... 240 VAC; 140 ... 300 VDC
Input voltage range	90 ... 264 VAC; 130 ... 300 VDC
Frequency	50 Hz ... 60 Hz
Input current I_i	0.6 A typ. at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 50 A
Mains failure hold-up time	> 20 ms at 230 VAC

Output:

Nominal output voltage V_o nom	48 VDC (SELV)
Output voltage range	42.3 ... 52.8 VDC adjustable
Output current I_o	1 A at 48 VDC
Factory preset	48 VDC
Adjustment accuracy	2 %
Residual ripple	< 200 mVpp at 20 MHz
Current limitation	from 1.1 x I_a
Overload behavior	Constant current
Operational indication	LED green (48 V o.k.)

Efficiency / power losses:

Efficiency	86 % typ.
Power loss P_v	7 W typ. (230 VAC / 48 VDC, 1 A)
Max. power loss P_v	7.8 W typ. (264 VAC / 48 VDC 1 A)

Fuse protection:

Internal fuse	1.6 AT / 250 VAC
External fuse	C10 or B16 circuit breakers
	An external DC fuse is required for the DC input voltage
	Transient overvoltage protection: Varistor

Description

Item No.

Pack. Unit

Switched-Mode Power Supply,
48 V DC / 1 A

787-613

1

Technical Data

Environmental requirements:

Ambient operating temperature	-10 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (>60 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

Safety and protection:

Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	max. 65 VDC (output)
Overload protection	via thermal protective circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 56 VDC
Parallel operation	yes
Series connection	yes

Connection and type of mounting:

Wire connection	CAGE CLAMP® (WAGO 231 Series)
Cross sections	0.08 ... 2.5 mm² / AWG 28 ... 12 (THHN, THWN)
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)

Dimensions and weight:

Dimensions (mm) W x H x L	56 x 140 x 110
	Height from upper-edge of DIN 35 rail
Weight	690 g

Standards and approvals:

Standards/Specifications	EN 60950-1, EN 61204-3, GL
--------------------------	-------------------------------