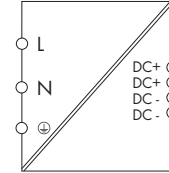


Switched-Mode Power Supply, 1-Phase

EPSITRON® ECO Power



- Primary switch mode power supply unit
- Protection class I
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1
- DIN-35 rail mountable in different positions
- Installation width (as delivered): 40 mm
- Direct installation on mounting plate via cable grip

Technical Data

Input:	
Nominal input voltage $V_{i, nom}$	(100) 110 V ... 240 V AC
Input voltage range	90 V ... 264 V AC; 125 V ... 375 V DC
Frequency	47 Hz ... 63 Hz
Input current I_i	0.6 A typ. at 230 VAC; 1.2 A typ. at 115 VAC
Discharge current	< 3.5 mA
Inrush current	< 18 A
Mains failure hold-up time	> 10 ms at 230 VAC
Output:	
Nominal output voltage $V_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 26 VDC adjustable
Factory preset	24 VDC
Output current I_o	2.5 A at 24 VDC and 110 ... 240 VAC 2 A at 24 VDC and 100 ... 240 VAC
Adjustment accuracy	< 1 %
Residual ripple	< 200 mV (peak-to-peak) up to 20 MHz
Overload behavior	Constant power (in overload range: $1.05 \dots 1.4 \times I_o$); shutdown and automatic restart in the event of a short circuit
Operational indication	Green LED (24 V DC OK)
Efficiency/Power losses:	
Efficiency	> 81 % (at 230 VAC and 2.5 ADC)
Fuse protection:	
Internal fuse	F 2 A / 250 V
External fuse	Circuit breakers B6, B10; An external DC fuse is required for the DC input voltage

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 2.5 A	787-1712	1

Technical Data

Environmental requirements:	
Ambient operating temperature	-20 °C ... +60 °C
Storage temperature	-25 °C ... +75 °C
Relative humidity	10 % ... 95 % (no condensation)
Derating	-3 % / K (> 45 °C)
Overvoltage category	II
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Test voltage	
PRI-SEC/PRI-GND/SEC-GND	3 kV AC kV / 1.5 kV AC kV / 0.5 kV AC
Protection class	I
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Via varistor at primary circuit
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	28 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 100000 h (acc. to MIL-HDBK-217)
Connection and mounting type:	
Wire connection	CAGE CLAMP® (WAGO 231 Series)
Cross sections	0.08 ... 2.5 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN)
Strip lengths	6 ... 7 mm / 0.24 ... 0.28 in
Mounting type	DIN-rail-mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	99 x 90 x 40 Length from upper-edge of DIN-rail
Weight	ca. 300 g
Standards and specifications:	
Standards/specifications	EN 60950, EN 61204-3, EN 60335, UL 60950, UL 508