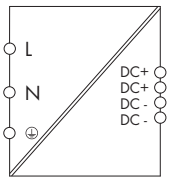
Switched-Mode Power Supply, 1-Phase

***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): 30 mm
- Direct installation on mounting plate via cable grip

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 1.25 A	**787-1702**	1

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	0.3 A typ. at 230 VAC;
	0.6 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	1.25 A at 24 VDC and 110 ... 240 VAC
	1 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 1.4 x 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	> 80 % (at 230 VAC and 1.25 ADC)
Fuse protection:	
Internal fuse	F 1 A / 250 V
External fuse	Circuit breakers B6, B10;
	An external DC fuse is required for the
	DC input voltage

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 mm² / 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 30
	Length from upper-edge of DIN-rail
Weight	ca. 250 g
Standards and specifications:	
Standards/specifications	EN 60950, EN 61204-3, EN 60335,
	UL 60950*, UL 508*,
	(*pending)