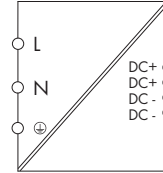


## Switched-Mode Power Supply

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

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 24 V DC / 2.5 A	787-612	1

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_i$ nom	100 ... 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	700 $\mu$ A typ.
Inrush current	< 50 A
Mains failure hold-up time	> 20 ms at 230 VAC
<b>Output:</b>	
Nominal output voltage $V_o$ nom	24 VDC (SELV)
Output voltage range	22 ... 28.8 VDC adjustable
Output current $I_o$	2.5 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mVpp to 20 MHz
Current limitation	from approx. $1.1 \times I_o$
Overload behavior	Constant current
Operational indication	LED green (24 V o.k.)
<b>Efficiency / power losses:</b>	
Efficiency	90 % typ.
Power loss $P_V$	7 W typ. (230 VAC / 24 VDC, 2.5 A)
Max. power loss $P_V$	8 W typ. (90 VAC / 24 VDC 2.5 A)
<b>Fuse protection:</b>	
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	

Technical Data	
<b>Environmental requirements:</b>	
Ambient operating temperature	-10 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (>55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
<b>Safety and protection:</b>	
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. 40 VDC (output)
Overload protection	via thermal protective circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 30 VDC
Parallel operation	yes
Series connection	yes
<b>Connection and type of mounting:</b>	
Wire connection	CAGE CLAMP® (WAGO 231 Series)
Cross sections	0.08 ... 2.5 mm <sup>2</sup> / AWG 28 ... 12
Strip lengths	8 ... 9 mm / 0.33 in
Type of mounting	DIN-rail mount (EN 60715)
<b>Dimensions and weight:</b>	
Dimensions (mm) W x H x L	51 x 133 x 120
Weight	Height from upper-edge of DIN 35 rail 612.7 g
<b>Standards and approvals:</b>	
Standards/Specifications	EN 60950-1, EN 61204-3, UL 60950, UL 508, GL