

Switched-Mode Power Supply

EPSITRON® CLASSIC Power



- Primary switch mode power supply unit
- Supplies AS-Interface fieldbus systems
- Minimum wire size acc. to AS-Interface specification: 1.5 mm²
- 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, for DIN 35 rail	787-692	1

Technical Data	
Input:	
Nominal input voltage V_i nom	110 ... 240 VAC; 140 ... 300 VDC
Input voltage range	(85) 97 ... 264 VAC / (120) 140 ... 300 VDC
Frequency	50 Hz ... 60 Hz
Input current I_i	1.4 A at 115 VAC / 0.8 A at 230 VAC
Discharge current	600 μ A typ.
Inrush current	< 50 A
Mains failure hold-up time	> 50 ms at 230 VAC
Output:	
Nominal output voltage V_o nom	30.5 VDC (SELV)
Output voltage range	26 ... 33 VDC adjustable
Output current I_o	3 A at 30.5 VDC
Factory preset	30.5 VDC
Adjustment accuracy	3 %
Residual ripple	< 300 mVpp (< 10 kHz) / < 50 mVpp (10 kHz ... 20 MHz)
Current limitation	from 1.1 x I_a
Overload behavior	Constant current
Operational indication	LED green (operating condition at V_o)
Efficiency / power losses:	
Efficiency	89 % typ.
Power loss P_V	9 W typ. (230 VAC / 30.5 VDC, 3 A)
Max. power loss P_V	14.2 W typ. (264 VAC / 30.5 VDC 3 A)
Fuse protection:	
Internal fuse	4 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	
Environmental requirements:	
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)
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. 48 VDC (output)
Overload protection	via thermal protective circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 40 VDC
Parallel operation	no
Series connection	no
Connection and type of mounting:	
Wire connection	CAGE CLAMP® (WAGO 231 Series)
Cross sections	0.08 ... 2.5 mm ² / AWG 28 ... 12
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	51 x 133 x 120
	Height from upper-edge of DIN 35 rail
Weight	650 g
Standards and approvals:	
Standards/Specifications	EN 60950-1, EN 61204-3, EN 61204-7, UL 60950, UL 508, GL