

Switched-Mode Power Supply, 1-Phase

EPSITRON® CLASSIC Power



Similar to picture



- Primary switch mode power supply unit
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Integrated TopBoost, enabling secondary-side protection via wire breakers
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	787-1634	1
Technical Data		
Environmental Requirements:		
Ambient operating temperature	-25 °C ... +70 °C;	
	Device start at -40 °C (type-tested)	
Storage temperature	-25 °C ... +85 °C	
Relative humidity	30 % ... 85 % (no condensation permissible)	
Derating	-5 %/K (>60° C, 196 ... 264 VAC);	
	-2.5 %/K (>50° C, 85 ... 195 VAC)	
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	4.2 kV DC kV / 2.2 kV DC kV / 0.7 kV DC	
Protection class	Prepared for class I equipment	
Degree of protection	IP20 (acc. to EN 60529)	
Overvoltage protection	Varistor (input side); internal protective circuit, < 40 VDC (output side in case of an error)	
Short circuit protection	yes	
No-load proof	yes	
Feedback voltage	max. 35 VDC	
Parallel operation	yes	
Series connection	yes	
MTBF	> 500,000 h (acc. to IEC 61709)	
Connection and type of mounting:		
Wire connection	Input/Signaling: WAGO 721 Series Output: WAGO 831 Series	
Cross sections	Input/Signaling: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 Output: 0.5 mm ² ... 10 mm ² / AWG 20 ... 8	
Strip lengths	Input/Signaling: 8 ... 9 mm / 0.31 ... 0.35 in Output: 13 ... 15 mm / 0.51 ... 0.59 in	
Type of mounting	DIN-rail mount (EN 60715)	
Dimensions and weight:		
Dimensions (mm) W x H x L	95 x 127 x 170	
	Length from upper-edge of DIN 35 rail	
Weight	1600 g	
Standards and approvals:		
Standards/Specifications	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, DNVGL	

Technical Data	
Input:	
Nominal input voltage $V_{i, nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-1.8 % (< 105 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	2.23 A (240 VAC); 5.56 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	20 ms (230 VAC); 20 ms (100 VAC)
Output:	
Nominal output voltage $V_{o, nom}$	24 VDC (SELV)
Output voltage range	23 ... 28.5 VDC adjustable
Output current I_o	20 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	< 1 %
Residual ripple	70 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC O.K. contact; (Make contact, max. 30 V AC/DC, 1 A)
Efficiency/Power losses:	
Efficiency	92 % typ.
Power loss P_V	7.0 W (230 VAC, no load); 40.8 W (230 VAC, nominal load)
Max. power loss P_V	68.3 W typ. (100 VAC / 24 VDC, 20 A)
Fuse protection:	
Internal fuse	T 10 A / 250 V
External fuse	Circuit breakers 10 A, 16 A, B or C characteristic; An external DC fuse is required for the DC input voltage