

## 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 switching 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, 48 VDC / 5 A	787-1633	1
<b>Technical Data</b>		
<b>Environmental Requirements:</b>		
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)	
<b>Safety and protection:</b>		
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,	
	< 60 VDC (output side in case of an error)	
Short circuit protection	yes	
No-load proof	yes	
Feedback voltage	max. 63 VDC	
Parallel operation	yes	
Series connection	yes	
MTBF	> 500,000 h (acc. to IEC 61709)	
<b>Connection and type of mounting:</b>		
Wire connection	Input/Output/Signaling:	
	WAGO 721 Series	
Cross sections	Input/Output/Signaling:	
	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / AWG 28 ... 12	
Strip lengths	Input/Output/Signaling:	
	8 ... 9 mm / 0.31 ... 0.35 in	
Type of mounting	DIN-rail mount (EN 60715)	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	55 x 127 x 172	
	Length from upper-edge of DIN 35 rail	
Weight	930 g	
<b>Standards and approvals:</b>		
Standards/Specifications	EN 60950-1, EN 61204-3,	
	UL 60950-1, UL 508, DNVGL	

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_{i, nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 V ... 372 VDC
Input voltage derating	-2.5 % (< 100 VAC)
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current $I_i$	1.19 A (240 VAC);
	2.68 A (100 VAC)
Discharge current	< 1 mA
Inrush current	< 30 A
Mains failure hold-up time	21 ms (230 VAC);
	21 ms (100 VAC)
<b>Output:</b>	
Nominal output voltage $V_{o, nom}$	48 VDC (SELV)
Output voltage range	40 ... 56 VDC adjustable
Output current $I_o$	5 A at 48 VDC
Factory preset	48 VDC
Adjustment accuracy	< 1 %
Residual ripple	30 mV (peak-to-peak) typ.
Current limitation	1.11.1 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)
<b>Efficiency/Power losses:</b>	
Efficiency	92 % typ.
Power loss $P_V$	7 W (230 VAC, no load);
	40.8 W (230 VAC, nominal load)
Max. power loss $P_V$	26.5 W typ. (100 VAC / 48 VDC, 5 A)
<b>Fuse protection:</b>	
Internal fuse	T 6.3 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