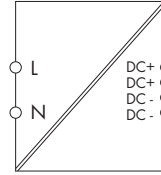


Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power



- Primary switch mode power supply unit
- Prepared for protection class II equipment
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-Mode Power Supply, 5 VDC / 5.5A	787-1020	1

Technical Data	
Input:	
Nominal input voltage $V_{i\text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Frequency	44 Hz ... 66 Hz; 0 Hz
Input current I_i	0.6 A at 110 VAC; 0.3 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC; > 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\text{nom}}$	5 VDC, SELV
Output voltage range	4.5 ... 8.5 VDC adjustable
Factory preset	5 VDC
Output current I_o	5.5 A at 5 VDC; max. 3.5 A in any mounting position
Adjustment accuracy	< 2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	$1.1 \times I_o$ typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power Losses:	
Efficiency	75 % typ.
Power loss P_V	2.4 W (230 VAC, no load) 9.4 W (230 VAC, nominal load)
Max. power loss P_V	9,9 W typ. (264 VAC; 5 VDC, 5,5 A)
Fuse Protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C An external DC fuse is required for the DC input voltage

Technical Data	
Environmental Requirements:	
Ambient operating temperature	-25 °C ... +60 °C (UL: -25 °C ... +55 °C); Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Relative humidity	5 % ... 96 % (no condensation)
Derating	-3 % / K (> 45 °C)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray, Flammability class V0 acc. to UL94
Test voltage PRI-SEC	4.2 kV DC
Protection class	Prepared for class II equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	< 16 VDC (in the event of a fault)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 10 VDC
Parallel operation	yes
Series connection	yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output: 0.08 ... 2.5 mm ² / AWG 28 ... 12
Strip lengths	Input/Output: 6 ... 7 mm / 0.24 ... 0.28 in
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
Weight	Length: 55 mm, from upper-edge of DIN 240 g
Standards and Specifications:	
Standards/specifications	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL * (* pending)