

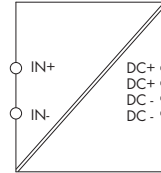
Switched-Mode Power Supply

EPSITRON® COMPACT Power



Similar to picture

- Primary switch mode power supply unit
- Suitable for protection class II equipment
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- 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 / 2.0 A	787-1014	1

Technical Data	
Input:	
Nominal input voltage $V_{i\text{nom}}$	110 VDC
Input voltage range	77 V ... 140 VDC
Frequency	0 Hz
Input current I_i	0.77 A at 77 VDC / 0.42 A at 140 VDC
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 8 ms at 77 VDC / > 25 ms at 140 VDC
Output:	
Nominal output voltage $V_{o\text{nom}}$	24 VDC (SELV)
Output current I_o	2.0 A at 24 VDC max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mVpp at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (Va)
Efficiency/Power losses:	
Efficiency	85 % typ.
Power loss P_V	1.9 W (110 VDC/no load), 9.9 W (110 VDC/nominal load)
Max. power loss P_V	9.9 W typ. (77 VDC / 24 VDC, 2 A)
Fuse protection:	
Internal fuse	4 AT (125 VDC)
External fuse	6 A, 10 A power circuit breakers, B, C characteristics

Technical Data	
Environmental requirements:	
Ambient operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	30 % ... 80 % (varnished PCB)
Derating	-1.5 %/K (> 55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Shock and vibration	Category 1, class B (acc. to EN 61373:2010)
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	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	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output: 0.08 mm ² ... 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
Height	55 mm, from upper-edge of DIN 35 rail
Weight	250 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950 *, UL 508 *, GL * * (pending)