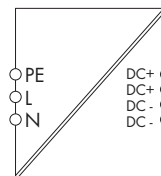


Switched-Mode Power Supply, 1-Phase

EPSITRON® COMPACT Power



- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Screw mounts for alternative installation in distribution boxes or devices
- Pluggable picoMAX® connection technology (tool-free)
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1
- Suitable for both parallel and series operation

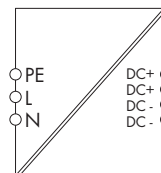
Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 4.2 A	787-1216	1

Technical Data	
Input:	
Nominal input voltage $V_{i\text{nom}}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 125 ... 373 VDC
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Frequency	47 ... 63 Hz
Input current I_i	< 2.5 A
Power factor	> 0.5
Discharge current	< 0.25 mA
Inrush current	< 20 A
Mains failure hold-up time	≥ 50 ms
Output:	
Nominal output voltage $V_{o\text{nom}}$	24 VDC (SELV)
Output voltage range	22 V ... 26 VDC adjustable
Factory preset	24 VDC
Output current I_o	4.2 A (3.3 A at $V_i < 110$ VAC)
Adjustment accuracy	< 1 %
Deviation, dynamic load change	10 ... 90 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 ... 1.35 x I_o); shutdown and automatic restart in the event of a short circuit
Operational indication	Green LED (DC OK)
Efficiency/Power losses:	
Efficiency	> 90 % (230 VAC); > 87 % (110 VAC)
Power loss P_V	0.7 W (230 VAC, no load)
Max. power loss P_V	15 W (100 VAC, 4.2 ADC)
Fuse protection:	
Internal fuse	T 3,15 A/250 V
External fuse	Circuit breakers 6 A (characteristic: C), 10 A (characteristic: B) or higher; An external DC fuse is required for the DC input voltage

Technical Data	
Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	95 % (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Degree of pollution	2 (per EN 50178)
Climatic category	3K3 (per EN 60721, except for low air pressure)
Safety and protection:	
Test voltage PRI-SEC	3 kV AC
Protection class	I
Degree of protection	IP20 (per EN 60529)
Overvoltage protection	< 31 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 35 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h
Connection and mounting type:	
Wire connection	Input/Output: picoMAX® (WAGO 2092 Series)
Cross sections	Input/Output: 0.2 ... 2.5 mm ² /24 ... 12 AWG
Strip lengths	Input/Output: 9 ... 10 mm/0.35 ... 0.39 in.
Mounting type	DIN-rail-mount (EN 60715) or screw mount (back/side)
Dimensions and weight:	
Dimensions (mm) W x H x L	108 x 90 x 56
Weight	Length: 55 mm, from upper-edge of DIN-rail 415 g
Standards and specifications:	
Conformity marking	CE
Standards/specifications	EN 61204-3, EN 60950-1, EN 60335-1, UL 60950, UL 508* (*pending)

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