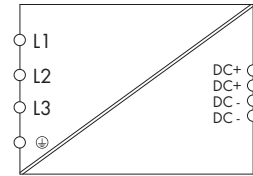


Switched-Mode Power Supply

EPSITRON® PRO Power



- Primary switch mode power supply unit with PowerBoost and TopBoost
- LineMonitor for parameter setting and monitoring
- RS-232 serial interface
- 4 signal outputs
- Parallel operation, series connection possible
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Technical Data

Input:

Nominal input voltage V_i nom	3x (2x) 400 ... 500 VAC
Input voltage range	340 ... 550 VAC; 480 ... 780 VDC (use of DC requires external protection)
Frequency	50 - 60 Hz
Input current I_i	3 x 0.6 A at 340 VAC and 10 ADC
Discharge current	1 mA typ.
Inrush current	< 30 A
Mains failure hold-up time	22 ms typ. at 3 x 400 VAC

Output:

Nominal output voltage V_o nom	24 VDC (SELV)
Output voltage range	22.8 ... 28.8 VDC adjustable
Output current I_o	10 A at 24 VDC
PowerBoost	20 ADC (for 4 s); 15 ADC (for 16 s)
TopBoost	70 ADC (for 50 ms)
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 70mVpp
Current limitation	1.1 x I_o typ.
Overload behavior	adjustable (constant current / fuse mode)
Operational indication	LED green (V_o), LED yellow (warning), LED red (error)
Signaling	LED, LCD, 4 x signal output 24 V DC, 25 mA
LineMonitor, parameter setting	via LCD and RS-232 serial interface

Efficiency / power losses:

Efficiency	91.7 % typ.
Power loss P_v	7.8 W (stand-by) / 19.9 W (rated load)

Fuse protection:

Internal fuse	3 x 1.6 AT
External fuse	3 x circuit breakers 6 A, 10 A, 16 A, characteristic: B or C; or motor circuit breakers, setpoint: 1.6 A, setting range: 1.6 ... 2.5 A An external DC fuse is required for the DC input voltage

Description

Switched-Mode Power Supply,
24 V DC / 10 A

Item No.

787-850

Pack.
Unit

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Technical Data

Environmental requirements:

Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Rel. humidity	30 % ... 85 % (no condensation)
Derating	-3 % / K (> 50 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

Safety and protection:

Test voltage pri.-sec./ pri.-gr. / sec.-gr.	4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 acc. to EN 60529
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes

Connection and type of mounting:

Wire connection	Input/Output: WAGO 231 Series Signalling: WAGO 733 Series
Cross sections	Input/Output: 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 12 Signalling: 0.08 mm ² ... 0.5 mm ² / AWG 28 ... 20
Strip lengths	Input/Output: 8 ... 9 mm / 0.33 in Signalling: 5 ... 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions

Dimensions and weight:

Dimensions (mm) W x H x L	57 x 163 x 179
Weight	Height from upper-edge of DIN 35 rail 1000 g

Standards and approvals:

Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508
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