Q.PS-AD2-2405F

Power supplies with 24 VDC output

- Input rated voltage 115...230 VAC
- Output: 24 VDC ±3% / 5 A
- Power Boost: 7,5 A for at least 3 minutes, up to 60 °C
- 3 different modes for the short-circuit protection are selectable
- Overload protected
- Strong overload without switch-off
- "Power Good"-Relais
- IP20
- Mounting on DIN rail
- Extremely small size



	Product Range						
Figure	Input	Output	Protection	Features			
Q.PS-AD1	Single phase 24 VAC / 40 VDC	24 VDC, 3 A 24 VDC, 5 A 24 VDC, 7 A	Short circuit Overload				
Q.PS-AD2-24xxF	Single phase 115240 VAC	24 VDC, 1.53 A 24 VDC, 57.5 A 24 VDC, 1014 A	Short circuit Overload Overvoltage	Adjustable output voltage 2227 VDC			
Q.PS-AD3	Double-phase 400480 VAC	24 VDC. 5 A	Short circuit Overload Overvoltage	Adjustable output voltage 2226 VDC			
Q.PS-ADB	Single phase 110230 VAC / 24VDC battery	24 VDC, 5 A	Short circuit Overload Overvoltage	Adjustable charging current 15 A, battery diagnostic and different charging modes			

Applications

Control panels, where 24 VDC is required to supply PLC's, actors, sensors etc. But also power demanding loads such as solenoid valves, motors, lamps, etc. Can be used in applications for:

- Building automation
- Industrial automation
- Infrastructure plants, such as water or sewage treatment
- Machineries
- Material handling
- etc.

Norms and certifications

 The CE mark according to 2004/108/EC Electromagnetic Compatibility and low voltage directive 2006/95/EC

Electrical safety

 According to IEC/EN60950 (VDE0805) and EN50178 (VDE0160) for assembling devices. The unit must be installed according to IEC/EN60950.

EMC Generic

Immunity according to EN61000-6-2
Emission according to EN61000-6-4

Functions

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Input data

Input voltage Input Voltage Range Inrush Current (Vn - In Load)) Frequency Input Current (Input Rated Voltage) Internal Fuse External Fuse

115...230 VAC 90...264 VAC \leq 11 A \leq 5 ms 47...63 Hz ± 6% 2,8...1,0 A

4 A

Fast 10 A

Output data

Output Voltage (Vn) / Nominal Current (In) Adjustment range (Vadi)Adjustment range (V_{adi}) Turn-On delay after applying mains voltage Start up with capacitive load 24 VDC ±3% / 5 A 22...27 VDC 1 s (max.)

≤ 50.000 µF

Continuous running current

Max. continuous current at \leq 40 °C 7.5 A 6.0 A Max. continuous current at ≤ 50 °C Max. continuous current at ≤ 60 °C 5.0 A Power reserve (power boost) 7.5 A (within 3 min. \leq 60 °C) Short-circuit current (Icc) 16 A Hold-up Time (at 100...240 VAC) in general 20 ms ≤ 80 mVpp Residual Ripple Minimum load No ≥ **91** % Effiziency (at 50 % In) Short-circuit protection Overload protection Yes Over Voltage Output protection Yes (max 35 VDC) Parallel connection

Climatic data

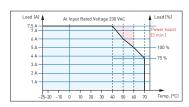
-25...+70 °C **Ambient Temperature** (operation) (De rating >60 °C, 2.5%/°C) **Ambient Temperature** -40... +85 °C (storage) Humidity; no moisture condensa-95 % at +25 °C

General data

Isolation Voltage (Input/Output) 3000 VAC 1605 VAC Input / Ground isolation PE 500 VAC Output / Ground isolation PE Degree of protection **IP20** Pollution Degree Environment 2 Protection class I, with PE connected 55×110×105 mm Dimension (w×h×d) Weight approx 0.60 kg

Output characteristics

Output Derating Curve

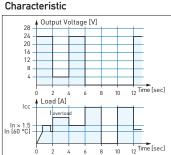


Mode Jumper

Hiccup-Mode

Automatic restart (default setting). The device tries to re-establish output voltage about every 2 seconds.

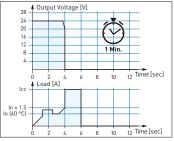




Manual Reset-Mode

In order to restart the output it is necessary to switch-off the input circuit for about 1 minute.

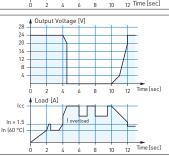




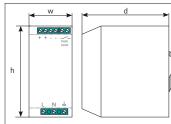
Continuous Out Mode

The output current is kept at high values with near zero voltage.





Dimensions



Contact

Switzerland and International

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