

Q.PS-AD2-2402, Single phase power supply

- Input: single-phase 115 - 230 VAC
- Output: One output 2.5 A - 24 VDC
- Strong overload without switch-off
- Short-circuit protection
- Over-voltage protection
- IP20
- DIN Rail Mountable
- Extremely small size



Features

Input Data

Code	Q.PS-AD2-2402
Input Rated Voltage (2 x VAC)	115 – 230 VAC
Rated Voltage range	93 ÷ 264 VAC
Inrush current (Vn – In)	≤11A ≤ 5 msec
Frequency	47 ÷ 63 Hz
Input current (input rated voltage)	0.9 – 0.5 A
Internal Fuse	No
External Fuse (recommended)	Fast 4 A

Output Data

Output Voltage (In)	24 VDC ±3% / 2.5 A
Adjustment range (V _{adj})	22 ÷ 26 VDC
Start up with strong load (capacitive load)	≤ 20.000 / ≤ 30.000μF
Switching on delay applying mains voltage	2.5 sec (max.)
Max. continuous current	1.1 x I _n ± 5%
Reserve Out Current (max. 1 min. 50 °C)	I _{max} = I _n +25% approx.
Hold-up Time (at 100 – 240 Vac)	Typ. 27 msec
Residual Ripple	≤ 60 mV _{pp}
Minimum Load	No
Efficiency	≥ 81 %
Short-circuit protection (hiccup mode)	Yes
Over Load protection (hiccup mode)	Yes
Over Voltage Output protection	Yes (max. 35 VDC)
Parallel connection	Yes

Climatic Data

Ambient Temperature (operation)	-10 ÷ +70 °C (>50°C derating)
Ambient Temperature (Storage)	-25 ÷ + 85 °C
Humidity; no moisture condensation	95 % at +25°C

General Data

Isolation Voltage (Input/Output)	3000 VAC
Input / ground isolation PE	1605 VAC
Output / ground isolation PE	500 VAC
Degree of protection	IP 20
Protection class	I with PE connected
Dimension (w-h-d)	50x95x155
Weight	0.45 kg approx.

Norms and certifications

According to EMC 89/336/EEC and Low voltage 93/68/EEC

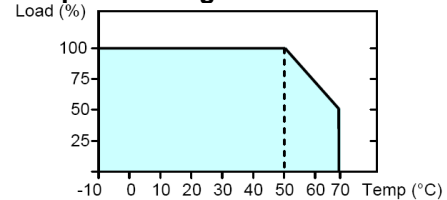
Electrical Safety

According to IEC/EN 60950 (VDE 0805) and EN 50178 (VDE 0160) for assembling device.
The device must be installed according to IEC/EN 60950.

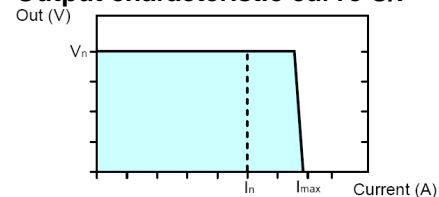
Generic

Immunity according to EN50082-2 Level 4 Class B
Noise Radiation according to EN 55011

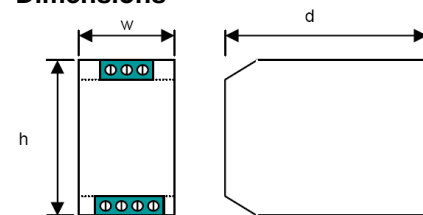
Output derating curve



Output characteristic curve U/I



Dimensions



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All specifications are subject to change without notice
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