

DQ-A1000

POWER SUPPLY 250-1000Vdc/24Vdc

Designed for photovoltaic applications

dc/dc power supply, designed for the power supply of the auxiliary string of electrical panels, by using directly the delivered energy from photovoltaic panels.



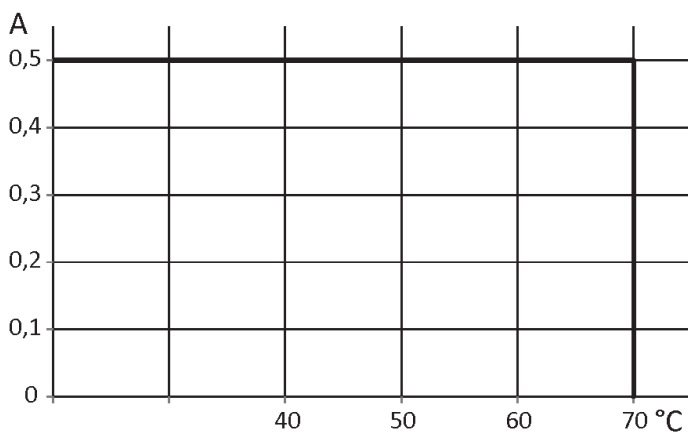
GENERAL CHARACTERISTICS

- Wide input voltage range: 250-1000 Vdc (300-1500 under development).
- 12W power output.
- 8000V Galvanic isolation between primary and secondary.
- High efficiency.
- Operating signaling LED.
- Replaceable input fuse.
- Protection against reverse input polarity.
- Short-circuit protection output.
- Overtemperature protection.
- DIN rail mounting 35mm.

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TECHNICAL FEATURES

● Input voltage	250-1000V _{cc} (300-1500 V _{dc} under development)
● Input current, DC max	<50mA @ 300V _{in} I _{out} =0.5A <18mA @ 1000V _{in} I _{out} =0.5A
● Input max peak current	4A @ 1000V _{in} (100μSec)
● Reverse input polarity protection	Yes
● Input fuse	Yes, user replaceable
● Output voltage	24V _{dc} ± 3% - including line and load regulation
● Output current	500mA
● Max output residual ripple	<100mV
● Short-circuit protection	Yes, automatic recovery
● Thermal protection from overtemperature	Yes
● Efficiency	> 80% (V _{in} =700V, I _{out} =500mA)
● Case material	Noryl UL94V-0
● Dimensions	W x D x H 72 x 90 x 58 mm
● Mounting	Rail DIN 35mm
● Number of terminals	1+1 input; 3+3 output
● Wire cross-section, flexible wire min - max	0.15 – 1.5mm ²
● Wire cross-section, solid wire min - max	0.15 – 2.5mm ²
● IP code	IP20
● Class of protection	II
● Pollution degree	2
● Operating temperature	-20 ... +70°C no derating
● Storage temperature	-25 ... +80°C
● Relative humidity	Max 90% no condensing
● MTBF	Best of 2.500.000 hours @ 40°C
● Construction according to EC directives	EN61204-7:2006
● EMC	EN61204-3:2001
● Dielectric input-output strength	8000V _{dc} - 1 minute



Temperature characteristics