

Specifications

INPUT

Voltage Range

4.5-5.25 Vdc 9-36 Vdc

20-72 Vdc

Reverse Polarity Protected

To Nominal Input Current External Fuse Required

OUTPUT

Voltage Tolerance

± 2%

Ripple and Noise Short Circuit Protection Temperature Coefficient 1% of Rated Output (typ) Continuous Power Cycle

0.02% / °C

GENERAL

Regulation:

Line 0.5%
Load 1.0%
Switching Frequency 200 kHz
Efficiency 75% (typ)
I/O Isolation 500 Vdc

ENVIRONMENTAL

Operating Temperature
Max Baseplate Temp
Storage Temperature
Cooling

-25°C to +71°C

105°C

-40°C to +105°C Free-air Convection

All specifications are typical at nominal line and full load at 25° C unless otherwise noted and are subject to change without notice.



5 Watts

Single/Dual Outputs

- Industry standard form factor 2 x 1 x 0.40
- Wide input voltage range
 4.5-5.25 Vdc
 9-36 Vdc
 20-72 Vdc
- 200kHz switching frequency
- Continuous short circuit protection
- Six-sided shielding
- UL1950 Recognized

he QA series of cost sensitive single and dual output 5 watt DC/DC converters are specifically designed for critical applications requiring a compact, low profile case.

These high performance 5 watt converters offer a high switching frequency topology, 500 Vdc I/O isolation, and efficiencies to 75%.

Fifteen models available; Three input voltage ranges of 4.5-5.25 Vdc, 9-36 Vdc, and 20-72 Vdc provide regulated outputs of 5, 12, 15 and ±12 and ±15 Vdc.

Applications

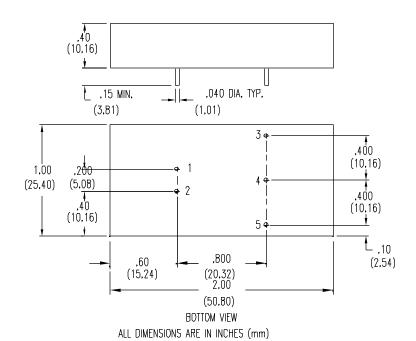
These units are ideally suited for telecommunications, distributed power systems, automatic test equipment, medical and process control.



QA Series Ordering Information

Input Voltage Range	Output Voltage	Output Current	Model Number
4.5-5.25 Vdc	5 Vdc	1000 mA	QA11-075-05
4.5-5.25 Vdc	12 Vdc	420mA	QA12-037-05
4.5-5.25 Vdc	15 Vdc	330mA	QA13-030-05
4.5-5.25 Vdc	±12 Vdc	±210mA	QA22-037-05
4.5-5.25 Vdc	±15 Vdc	±160mA	QA23-030-05
9-36 Vdc	5 Vdc	1000mA	QA11-075-18
9-36 Vdc	12 Vdc	420mA	QA12-037-18
9-36 Vdc	15 Vdc	330mA	QA13-030-18
9-36 Vdc	±12 Vdc	±210mA	QA22-037-18
9-36 Vdc	±15 Vdc	±160mA	QA23-030-18
20-72 Vdc	5 Vdc	1000mA	QA11-075-48
20-72 Vdc	12 Vdc	420mA	QA12-037-48
20-72 Vdc	15 Vdc	330mA	QA13-030-48
20-72 Vdc	±12 Vdc	±210mA	QA22-037-48
20-72 Vdc	±15Vdc	±160mA	QA23-030-48

Dimensions and Connections



PIN CONNECTIONS Single Output

- 1. +Input
- 2. -Input
- 3. + Output
- 4. No Pin
- 5. Output

PIN CONNECTIONS

Dual Outputs

- 1. +Input
- 2. -Input
- 3. + Output
- 4. Common 5. - Output

- 1. Ripple measured with a 3.3 mf tantalum capacitor across each output.
- 2. Case connected to pin #1 on -48 models. Case connected to pin #2 on -05 and -18 models

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