

10-60VDC ULTRA WIDE INPUT RANGE DC/DC CONVERTER

EUROCARD, OPEN FRAME or ENCLOSED CASE

BAW 09 SERIES- Single Output BAW 10 SERIES - Triple Output

- 10-60VDC wide input range
- 40-60W output power
- Individually regulated outputs
- Meets common approval requirements
- Conduction cooled - no fan
- High efficiency
- Field-proven double conversion
- Full electronic protection
- Meets FCC 20780 & VDE 0871 Class A



The BAW09 and BAW10 Series of DC/DC converters uses an advanced high frequency double conversion technology to generate 40-60W of output power - depending on the output - with a wide range DC input. Any output combination is possible with short delivery times/ This design has a low component count and a high conversion efficiency. The use of professional quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45° C.

STANDARD SPECIFICATIONS

Input Voltage
10VDC...60VDC**Input Protection**

Reverse polarity protection by crossbar diode and thermal fuse
Inrush current limiting

Input Isolation

500VDC input to chassis and input to output, minimum
Higher isolation available, please consult factory

Output Voltages

For triple output (40W max.):
+5V/6A, +/-12V/0.5A standard
Other output combinations available
For single output (60W max.):
Any voltage from 5V to 60VDC

Efficiency

70% (at higher than 24VDC input)

Line/Load Regulation

+/-1.% combined from no load to full load for main output
+/-3.% combined from no load to full load for secondary outputs

Output Over-voltage Protection

Double regulator loop for single output
Transzorb for triple output

Output Protection

Rectangular current limiting and short circuit protection with hiccup mode

RFI Suppression

Meets requirements for FCC 20780 Class A and EN55022 Class A conducted emissions

Output Ripple/Noise

High frequency is better than 20mVrms (50mVpp) for +5V output, 100mVpp for +/-12V outputs (20HZ BW)

Operating Temperature

0 to +50°C (standard model with convection cooling)

Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

MTBF

100,000 at 45°C

Connections:

Screw-type terminal block or H15 DIN connector

Other terminations available, please consult factory

Dimensions

Plug-in : 3U x 160mm x 8HP
Enclosed case: 7.77" x 4.42" x 2.0"
Open frame: 4.0" x 6.3" x 1.5"

Warranty

Twelve months subject to application within good engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request.
Designed to meet all approval requirements.

Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Standard or custom. Absopulse is a BABT approved facility.

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