

# BAW10 40W 3-OUTPUT DC/DC CONVERTER 10-60VDC IN 5-60VDC OUT 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  
Transzorbis 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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