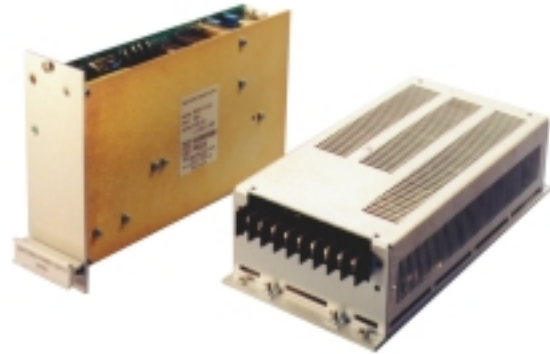


# BAF09/10 SERIES 60W DC/DC CONVERTER

## 12-130VDC IN ANY DC VOLTAGE OUT EUROCARD OR ENCLOSED

- Single double or triple output
- 60W (BAF 09/10); 100W (BAF 109/110); 100-150W (BAF 209/210)
- Optional front-panel adjustment & LED status
- Designed to meet safety and EMI standards
- Conduction/convection cooled - no fan
- High efficiency
- Fully protected
- High MTBF



The BAF Series is an advanced design using forward topology with 130kHz switching frequency. The BAF series is a field-proven design using high quality components and consequently has an MTBF rating exceeding 100,000 hours (@Ta=45°C). The BAF09, BAF10, BAF109 & BAF110 Series provides, depending on input/output configuration, 60-100W of output power with one, two or three fully regulated outputs while the BAF209 & BAF210 Series supplies 100 - 150W of output power. The units are fully input/output protected and the standard models meet EN 55022 Class B and FCC Class B EMI suppression requirements.

### SPECIFICATIONS

**Input Voltage**

Any DC voltage from 12V to 130VDC; 24 & 48V are standard.  
Voltage tolerance: ± 20%

**Input Protection**

Thermal Fuse  
Inrush current limiting  
Reverse polarity protection  
Low input voltage shutdown

**Input Isolation/Safety**

500VDC input to output  
input to chassis and output to chassis  
  
Higher isolation levels available  
Compliance to CSA22.2-950 and UL1950 safety requirements

**Output Voltages**

Any DC voltage

**Output ripple noise**

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHz BW)

**Efficiency**

Min 80% at full load

**Output Adjustment Range**

±10% on main output

**Line/Load Regulation**

1% combined for all outputs

**Output Protection**

Current limiting with hiccup mode  
Short circuit protection  
Some models available with constant current output

**Transient Response**

Max 5% overshoot also for extreme load steps

**Output over-voltage Protection**

Double regulator loop, completely stable and independent of main regulator loop

**Hold Up Time**

Minimum 10ms at full load for 5% drop of output voltage at 120V and higher input

**Operating Temperature**

0 to +50°C for full specifications.  
Wider temperature range available

**Temperature Drift**

0.03% per °C over operating temperature range

**MTBF**

100,000 at 45°C

**RFI Suppression**

Meets requirements for EN 55022 Class B and FCC 20780 Class B

**Dimensions**

Eurocard (plug-in module):  
BAF09/10: 3Ux160mmx8HP  
BAF109/110:3Ux220mmx8HP  
BAF209/210:3Ux220mmx10HP

Enclosed case (E-package)

BAF09/10: 7.8"x4.4"x2.0"  
BAF109/110: 10"x4.4"x2.25"  
BAF209/210: 10" x4.4"x2.25"

**Connectors:**

H11 or H15 DIN, faston or terminal block connector on module

**Warranty**

Twelve months subject to application within good engineering practice

Options such as alarms, remote control or special output voltages are available.  
Enhancements to these general specifications and customizing can be accommodated upon request.  
Absopulse is a BABT approved manufacturer.

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility**

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