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% overshot 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 (F-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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