

BAP319F 700W FAN COOLED DC/DC CONVERTER

- Competitively priced, industrial quality
- Single regulated and adjustable output
- 700W output power with built-in fan cooling
- Full electronic protection
- Field-proven design, very high demonstrated MTBF
- N+1 redundancy and module fail alarm available



The BAP319F Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 700W output power with built-in fan cooling. Almost any DC input/output configuration is possible. An optional redundancy diode allows for parallel connection to achieve higher output power or N+1 redundancy. This feature also makes the unit suitable for battery charging applications. The chassis-mount design features low component count and high efficiency. The use of high quality components and rigorous quality control results in an MTBF exceeding 150,000 hours at 45°C. Additional ruggedizing and conformal coating are available for applications requiring immunity to shock, vibration, humidity, moisture, dust and insects. Other options include a Form C output fail alarm and remote shutdown.

SPECIFICATIONS

Input Voltage

Any DC input from 24V to 125Vdc. 24V, 48V and 125Vdc are standard

Input Protection

Thermal Fuse
Inrush current limiting

Input Isolation

1500VDC input to chassis, input to output, Output to chassis 500V to 1500V depending upon output voltage

Designed to meet EN60950 and related UL & CSA standards. Please contact factory for approval status for the requested input/output configuration

Output Voltages

Any DC output from 12V to 125Vdc:
12V/50A (600W output only),
24V/28A, 36/19A, 48V/14A,
72V/9A or 125V/5A standard
Consult factory for other voltages

Line/Load Regulation

+/-1% combined

Output Overvoltage Protection

Double regulator loop

Overload Protection

Current limiting with short circuit protection
Self-resetting thermostat for thermal protection

Efficiency

Min 80% at full load

EMI

Meets EN 55022 Class A as a minimum

Output Ripple/Noise

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

Operating Temperature

0 to +50°C.

Temperature Drift

0.03% per °C over operating temperature range

Dimensions

FF4 package:
13.82" x 5.96" x 2.43"

Connections:

Screw type terminal block.
For other connectors please consult factory

Warranty

Twelve months subject to application within good engineering practice

Enhancements to these general specifications can be accommodated upon request. Designed to meet common approval requirements. Specifications subject to change.

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

