

700W, Rugged, Industrial DC/DC Converter with Fan Cooling BAP 319F-FT Series



- Rugged industrial quality
- Single regulated and adjustable output
- Full electronic protection
- Field-proven design in a wide range of applications
- N+1 redundancy available

The BAP 319F Series rugged, industrial quality DC/DC converter uses a field proven topology to generate 700W output power. It is a mature design with a track record in numerous applications. Any DC input/output configuration is possible. Cooling is by built-in fans, and additional conduction via baseplate. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. An optional built-in redundancy diode allows for parallel and N+1 operation. Other options include a Form C output fail alarm and remote shutdown. Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration and humidity. The BAP 319F is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage Any single DC input from 48V to 125Vdc. For 24V input the output is limited to 550W output due to the max. 30A allowable input current</p> <p>Input Protection Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit.</p> <p>Input Isolation Appropriate to the input/output configuration to meet safety standards</p> <p>Standards Designed to meet EN60950 and related UL & CSA standards</p> <p>EMI Meets EN 55022 Class A as a minimum</p> <p>Switching Frequency 55kHz +/- 3kHz</p>	<p>Output Voltage/Current Any single DC output from 12V to 125Vdc 12V/50A (600W output only)</p> <p>Redundancy diode Optional</p> <p>Line/Load Regulation +/-1% combined for non-redundant version</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)</p> <p>Overload Protection Current limiting with hiccup type short circuit protection Thermal shut-down with automatic recovery in case of insufficient cooling.</p> <p>Output Overvoltage Protection Double regulator loop</p>	<p>Efficiency Output voltage dependent. Typically 80% at full load</p> <p>Operating Temperature 0 to +50°C. Extended temperature range available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and forced air by built-in fans</p> <p>Environmental Protection Basic ruggedizing Optional heavy ruggedizing and conformal coating is available</p> <p>MTBF 150,000 hours @ 45 °C Demonstrated MTBF is significantly higher</p>	<p>Indicators Optional</p> <p>Control Input Optional</p> <p>Alarm Outputs Optional</p> <p>Package/Dimensions (WxHxL) FF4: 155 x 62 x 356 mm (6.1"x 2.43" x 14") including terminal block and flanges. Mounting holes are clear</p> <p>Weight 2.5 Kg (5.5 lb)</p> <p>Connections 12 pole barrier type terminal block with 3/8" spacing</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
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Enhancements or customizing of these general specifications can be accommodated upon request. 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



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