

## 200W, Rugged, Industrial Quality DC/DC Converter BAP 200-FT Series



- Rugged industrial quality
- Regulated and adjustable output
- Full electronic protection
- Field-proven design in a wide range of applications
- N+1 redundancy available as option
- Plug-in (Eurocard) version available

This rugged, industrial quality DC/DC converter uses field-proven topology to generate 200W output power. It is a simplified version of the field proven BAP 236 series with cycling type overload protection and the same electrical performance but fewer options. Cooling is via base plate to a heat-sinking surface and by natural convection. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. The series is manufactured at our plant under strict quality control. For customized versions with various options, and for Eurocard plug-in modules, please see the BAP 236 System datasheet.

### SPECIFICATIONS

<p><b>Input Voltage</b> 24Vdc (21-29V) 48Vdc (42-56V) 125Vdc (105-145V) For 12Vdc and other input voltages, consult factory.</p> <p><b>Input Protection</b> Inrush current limiting Varistor Reverse polarity protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> According to input voltage minimum of: 1000VDC input to chassis, 1500VDC input to output, 500VDC output to chassis</p> <p><b>Standards</b> Designed to meet EN60950 and corresponding UL/CSA standards</p> <p><b>EMI</b> EN 55022 Class B</p> <p><b>Switching Frequency</b> 55KHz +/- 3KHz</p>	<p><b>Output Voltages</b> 24V, 48V or 125Vdc Consult factory for other voltages</p> <p><b>Redundancy diode</b> None Available as option</p> <p><b>Line/Load Regulation</b> +/- 1% combined from zero load to full load on the "Direct" output</p> <p><b>Dynamic Response</b> Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p><b>Output Ripple / Noise</b> Better than 1% of output voltage peak to peak or 0.2% Vrms (20MHz BW)</p> <p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection. (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p> <p><b>Output Overvoltage Protection</b> Double regulator loop completely stable and independent of main loop</p>	<p><b>Efficiency</b> 80% - 87% at full load, depending on output voltage</p> <p><b>Operating Temperature Range</b> 0 to + 50°C cold plate temperature for full specification (For extended temperature range see BAP 236 Series)</p> <p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p> <p><b>Cooling</b> Convection and conduction cooling via base plate</p> <p><b>Environmental Protection</b> Basic ruggedizing Heavy ruggedizing and conformal coating as option</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 - 95% non-condensing</p> <p><b>MTBF</b> 150,000 hours at 45 °C Demonstrated MTBF is significantly higher.</p>	<p><b>Indicators</b> Green "Output ON" LED visible through the cooling slots</p> <p><b>Control Input</b> None</p> <p><b>Alarm Output</b> Form C contacts</p> <p><b>Package/Dimensions (W x H x L)</b> F2: 114 x 58 x 256 mm (4.5" x 2.3" x 10.1") including terminal block and flanges Mounting holes are clear</p> <p><b>Weight</b> 1.2 kg (2.6 lb)</p> <p><b>Connections</b> 9-pole barrier type terminal block with 3/8" spacing</p> <p><b>RoHS Compliance</b> Fully compliant</p> <p><b>Warranty</b> Two years subject to application within good engineering practice</p>
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**Enhancements to these general specifications can be accommodated upon request. Specifications are 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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