

150W, Rugged, Industrial Quality DC/DC Converter BAP 150-FT Series



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

This rugged, industrial quality DC/DC converter uses field-proven topology to generate 150W output power. It is a simpler version of the field proven BAP 180 series with cycling type overload protection. Cooling is via baseplate 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. An optional built-in redundancy diode allows for parallel connection for redundancy. Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration and humidity. This unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 24Vdc (21-29V) 48Vdc (42-56V) 125Vdc (105-145V) For 12Vdc and other input voltages, consult factory.</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>Isolation According to input voltage minimum of: 1000VDC input to chassis, 1500VDC input to output, 500VDC output to chassis</p> <p>Standards Designed to meet EN60950 and related standards</p> <p>EMI EN 55022 Class A as a minimum</p> <p>Switching Frequency 80KHz +/- 5KHz</p>	<p>Output Voltages 24V, 48V or 125Vdc Consult factory for other voltages</p> <p>Redundancy diode None Available as option</p> <p>Line/Load Regulation ± 1% combined from zero load to full load</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% Vrms (20MHz BW)</p> <p>Output Overload Protection Rectangular current limiting with hiccup mode short-circuit protection. Thermal shutdown in case of insufficient cooling (self resetting)</p> <p>Output Overvoltage Protection Double regulator loop completely stable and independent of main loop</p>	<p>Efficiency Typically 85% at full load depending on input/output combination</p> <p>Operating Temperature Range 0°C to + 50°C cold plate temperature for full specification Extended temperature ranges available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction via base plate and convection</p> <p>Environmental Protection Basic ruggedizing Heavy ruggedizing and conformal coating as option</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 150,000 hours at 45 °C Demonstrated MTBF is significantly higher</p>	<p>Indicators Green 'Output ON LED' visible through cooling slots</p> <p>Control Input None</p> <p>Alarm Output None on standard version Form C available as option</p> <p>Package/Dimensions (W x D x H) F1: 114 x 51x 201 mm (4.5" x 2" x 7.9") including terminal block and flanges. Mounting holes are clear</p> <p>Weight 0.8 kg (1.8 lb)</p> <p>Connections 9-pole barrier type terminal block, 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 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



ABSOPULSE ELECTRONICS LTD
110 Walgreen Road, Ottawa
Ontario, K0A 1L0, CANADA
Tel: +1-613-836-3511; Fax: +1-613-836-7488
E-mail: absopulse@absopulse.com
<http://www.absopulse.com>