

200W, Rugged, Cost-optimized Industrial DC/DC Converter BAP 200 Series

- Rugged construction
- Industrial quality
- Convection/conduction cooling
- 200W single output
- Full electronic protection
- Large design headroom
- Optimized cost by automated assembly
- Most versions are available from stock



The BAP 200 Series DC/DC converter utilizes ABSOULSE field-proven push-pull topology. The design is simplified to the basic features, the available options are limited versus the BAP 236. The layout is re-engineered for a higher level of production automation, which allows significant cost saving. A selected range of standard models is available from stock. The BAP 200 is ruggedly constructed to ensure long operating life in demanding environments. The chassis-mount design features low component count and high efficiency. Cooling is by convection/conduction. The use of high quality components, large design headroom and rigorous quality control ensure outstanding reliability. For customized versions with various options, and for Eurocard plug-in modules, the BAP 236 Series will remain available.

SPECIFICATIONS

<p>Input Voltage 24Vdc (21 – 30) 48Vdc (42 – 60) 125Vdc (105 – 150) Consult factory for other voltages</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 Corresponding to input/output configuration</p> <p>Standards Designed to meet EN60950 and related national standards.</p> <p>EMI EN 55022 Class B</p> <p>Switching Frequency 55KHz +/- 3KHz</p>	<p>Output Voltages 12Vdc/16A 24Vdc/8A 48Vdc/4A 125Vdc/1.6A Consult factory for other voltages</p> <p>Redundancy diode None on stock versions 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 short-circuit protection (no hiccup) 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 Min. 80% at full load</p> <p>Operating Temperature Range -20 to +55°C for full specification with proper cooling (For extended temperature range see BAP 236 Series)</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Convection and conduction cooling via base plate</p> <p>Environmental Protection Basic ruggedizing</p> <p>MTBF 200,000 hours at 45 °C</p>	<p>Indicators None</p> <p>Control Input None</p> <p>Alarm Output None on stock version Form C available as option</p> <p>Dimensions F2: 4.43" x 10" x 2.25" (W x D x H) including terminal block and flanges</p> <p>Weight 1.13kg (2.5 lb)</p> <p>Connections 9-pole barrier type terminal block, 3/8" spacing.</p> <p>RoHS Compliance (Directive 2002/95/EC) Fully compliant</p> <p>Warranty Two years subject to application within good engineering practice</p>
---	---	---	--

Enhancements to 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



ABSOULSE ELECTRONICS LTD
110 Walgreen Road, Ottawa
Ontario. K0A 1L0. CANADA
Tel: (613) 836-3511 Fax: (613) 836-7488
E-mail: absopulse@absopulse.com
www.absopulse.com