

60W, Rugged, Wide Input Range, Industrial DC/DC Converter BAW 09 Series



- Rugged industrial quality
- Single output
- Conduction/convection cooled
- Full electronic protection
- Field-proven design

The BAW 09 Series rugged, industrial quality DC/DC converter uses field proven double conversion technology to generate 60W output power. It is a mature design with a track record in numerous applications. Cooling is via baseplate to a heatsinking surface and by natural convection. The unit has full electronic protection. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. Additional ruggedizing and conformal coating are available for immunity to shock, vibration and humidity. The BAW 09 is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 10Vdc...60Vdc Consult factory for other voltages</p>	<p>Output Voltage/Current 12V/5A or 24V/2.5A Consult factory for other voltages</p>	<p>Efficiency Output voltage dependent. Typically 80% at full load</p>	<p>Indicators Green output ON LED visible through the cooling slots</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>Redundancy Diode None on this series</p>	<p>Operating Temperature Range 0 to 50°C for full specification installed on heat-sinking surface with good air flow Extended temperature ranges available</p>	<p>Control Input None</p>
<p>Isolation 1000VDC input to chassis, 1500VDC input to output, 500VDC output to chassis</p>	<p>Line/Load Regulation +/- 1% combined from no load to full load</p>	<p>Temperature Drift 0.03% per °C over operating temperature range</p>	<p>Alarm Output None</p>
<p>Standards Designed to meet EN 60950 and corresponding UL and CSA standards</p>	<p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p>	<p>Cooling Conduction to customer heatsink or chassis and natural convection</p>	<p>Packaging/Connections/Weight: <u>Open PCB version:</u> PCB size: 100mm x160mm Connector: header pins with 0.156" spacing or barrier-type terminal block Weight: 0.4 kg (0.9 lb)</p>
<p>EMI EN55022 Class A with margins</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>Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating available as an option</p>	<p><u>Enclosed case version (F1):</u> 114 x 51 x 201 mm (4.5" x 2" x 7.9") including terminal block and flanges. Mounting holes are clear Connector: 9-pole barrier-type terminal block Weight: 0.8 Kg (1.8 lb)</p>
<p>Switching Frequency Input section: 40kHz +/- 3kHz</p>	<p>Output Overload Protection Current limiting with short circuit protection (hiccup mode)</p>	<p>Shock/Vibration IEC 61373 Cat 1 A&B</p>	<p><u>Plug-in Module version (E1):</u> Eurocard: 3U x 160mm x 10HP Connector: H15 DIN</p>
	<p>Output Overvoltage Protection Double regulator loop</p>	<p>Humidity 5 – 95% non-condensing</p>	<p>RoHS Compliance Fully compliant</p>
		<p>MTBF 130,000 hours @ 45 °C Demonstrated MTBF is significantly higher</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



ABSOPULSE 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