

## 1000W, Rugged, Industrial Quality DC/DC Converter with Fan Cooling BAP 65F-125/XXFT Series

- Rugged industrial quality
- Field-proven design
- Cooling by built-in fans
- Low noise output
- Full electronic protection
- N+1 redundancy as option



This rugged, industrial quality DC/DC converter uses a field proven topology to generate up to 1000W, depending on input/output combination. It is a mature design with a track record in numerous heavy-duty applications. Cooling is by long life built-in fans, with additional conduction via base plate to a heat-sinking surface. An optional built-in redundancy diode allows for parallel and N+1 operation. Full electronic protection, 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.

### SPECIFICATIONS

<p><b>Input Voltage</b> 110V or 125Vdc Consult factory for other voltages</p>	<p><b>Output Voltage</b> 24V/40A or 48Vdc/20A Consult factory for other voltages</p>	<p><b>Efficiency</b> Typically 85% at full load depending on input/output combination</p>	<p><b>Indicators</b> None</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>Redundancy diode</b> None Available as option</p>	<p><b>Operating Temperature</b> 0°C to 50°C full specification Extended temperature ranges with derating available</p>	<p><b>Control Input</b> None on standard version Available as option</p>
<p><b>Isolation</b> 1500VDC input to chassis 2200VDC input to output 500VDC output to chassis</p>	<p><b>Line/Load Regulation</b> ± 1% combined from zero load to full load</p>	<p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p>	<p><b>Alarm Outputs</b> None on standard version Available as option</p>
<p><b>Standards</b> Designed to meet EN60950 and related standards</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>Cooling</b> Forced air by two high quality built-in fans and conduction to customer heatsink or chassis</p>	<p><b>Package/Dimensions (W x H x L)</b> FF3: 155 x 64 x 300 mm 6.1" x 2.5" x 11.8" including terminal block and flanges</p>
<p><b>EMI</b> EN 55022 Class A as a minimum</p>	<p><b>Output Ripple/Noise</b> Better than 1% of output voltage peak to peak or 0.2% rms of the output voltage (20MHZ BW)</p>	<p><b>Environmental Protection</b> Basic ruggedizing Optional heavy ruggedizing and conformal coating is available</p>	<p><b>Weight</b> 2.3kg (5 lbs.)</p>
<p><b>Switching Frequency</b> 55kHz +/- 3kHz</p>	<p><b>Overload Protection</b> Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p>	<p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p>	<p><b>Connections</b> 12 pole barrier type terminal block with 3/8" spacing</p>
	<p><b>Output Overvoltage Protection</b> Double regulator loop</p>	<p><b>Humidity</b> 5 - 95% non-condensing</p>	<p><b>RoHS Compliance</b> Fully compliant</p>
		<p><b>MTBF</b> 130,000 hours @ 45 °C (fans excluded) Demonstrated MTBF is significantly higher.</p>	<p><b>Warranty</b> Two years subject to application within good engineering practice durable</p>

**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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