

300W, Rugged, Convection/Conduction Cooled DC/DC Converter BAP 65 Series



- Single regulated and adjustable output
- 300/400W output power
- Rugged industrial quality
- Full electronic protection
- Field-proven design in a wide range of applications
- N+1 redundancy available

The BAP65 Series of DC/DC converters uses a field proven high frequency push-pull topology to generate 300W output power with convection/conduction cooling and 400W if forced air is available. For 500W output power, see the BAP 65F version with built-in fans. Any DC input/output configuration is possible. An optional redundancy diode allows for parallel connection to achieve higher output power or N+1 redundancy. This feature also makes the unit suitable for battery charging applications. The chassis-mount design features low component count and high efficiency. The use of high quality components and rigorous quality control results in a very high demonstrated MTBF confirmed by a track record established in hundreds of applications. Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration, humidity, moisture, dust and insects. Other options include a Form C output fail alarm and remote shutdown.

SPECIFICATIONS

<p>Input Voltage Any DC input from 24V to 125Vdc At 12Vdc input the output power is reduced to 250W</p> <p>Input Protection Inrush current limiting Varistor Reverse polarity Internal safety fuse Lower voltage than specified minimum input will not damage the unit</p> <p>Input Isolation Appropriate to the input/output configuration to meet safety standards</p> <p>Standards Designed to meet EN60950 and related UL & CSA standards</p> <p>EMI EN 55022 Class A as a minimum</p> <p>Switching Frequency 55kHz +/- 3kHz</p>	<p>Output Voltage Any DC output from 12V to 125VDC.</p> <p>Redundancy diode Optional</p> <p>Line/Load Regulation ±1% combined</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% RMS of the output voltage (20MHZ BW)</p> <p>Overload Protection Current limiting with short circuit protection Self-resetting thermostat for thermal protection</p> <p>Output Overvoltage Protection Double regulator loop</p>	<p>Efficiency Min 80% at full load</p> <p>Operating Temperature Range 0 to +50°C operating temperature range without derating. Extended temperature range available</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and natural convection</p> <p>Environmental Protection Basic ruggedizing Optional heavy ruggedizing and conformal coating is available</p> <p>Humidity 5 – 95% non-condensing</p> <p>MTBF 160,000 hours @ 45 °C (calculated) Demonstrated MTBF is significantly higher</p>	<p>Indicators Output ON LED visible through the cooling slots</p> <p>Control Input Optional</p> <p>Alarm Outputs Optional</p> <p>Package/Dimensions (W x H x L) F3: 132 x 62 x 300 mm (5.2" x 2.5" x 11.8") including terminal block and flanges</p> <p>Weight 2 kg (4.4 lb)</p> <p>Connections 12 pole barrier type terminal block with 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 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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