

300W, Rugged AC/DC Power Supply HBC 65 Series

- Industrial quality
- Single regulated and adjustable output
- Convection/conduction cooling
- Full electronic protection
- Field-proven design
- N+1 redundancy available



The HBC 65 Series AC/DC power supply uses a high frequency half-bridge topology with many years of field proven reliability. It generates 300W output power with convection/conduction cooling and 400W if external forced air is available. For 500W output power, see the HBC 65F version with built-in fans. Standard output voltages from 12V to 125VDC are available. The chassis-mount design features low component count and high efficiency. The use of high quality components and rigorous quality control results in a demonstrated MTBF exceeding 1,000,000 hours confirmed by a track record established in hundreds of applications.

SPECIFICATIONS

<p>Input Voltage 115/230VAC +/- 15% 47 - 63Hz Voltage selection by internal jumper</p>	<p>Output Voltage/Current 12VDC/25A, 24VDC/12.5A, 48VDC/6.25A or 125VDC/2.4A Consult factory for other voltages</p>	<p>Output Overvoltage Protection Double regulator loop completely stable and independent of main loop</p>	<p>Indicators None on standard version</p>
<p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified min. input will not damage the unit</p>	<p>Redundancy Diode Optional</p>	<p>Efficiency Output voltage dependent . Typically 80% at full load</p>	<p>Control Input None</p>
<p>Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis</p>	<p>Line/Load Regulation +/- 1% combined from zero load to full load</p>	<p>Operating Temperature Range 0 to 50°C for full specification without de-rating. Extended temp. range available</p>	<p>Alarm Output None on standard version Available as option</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>Temperature Drift 0.03% per °C over operating temperature range</p>	<p>Dimensions (WxHxD) F3: 5.2" x 2.5" x 11.4" including mounting flanges and terminals</p>
<p>EMI EN55022 Class B</p>	<p>Output Ripple / Noise Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)</p>	<p>Cooling Conduction to customer heatsink or chassis and natural convection</p>	<p>Weight 1.77 kg (3.9 lb)</p>
<p>Switching Frequency 55 KHz +/-3KHz</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>Environmental Protection Basic ruggedizing Optional conformal coating</p>	<p>Connections 12 pole barrier type terminal block with 3/8" spacing</p>
<p>Hold Up Time Minimum 10ms at full load for 5% drop of output voltage at nominal input</p>		<p>Humidity 5 – 95% non-condensing</p>	<p>RoHS Compliance (Directive 2002/95/EC) According to requirements</p>
		<p>MTBF 200,000 hours @ 45°C (calculated) Demonstrated MTBF exceeds 1,000,000 hours at typical operating temperatures</p>	<p>Warranty Twelve months subject to application within good engineering practice</p>

Enhancements to these general specifications and customizing 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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