

## 300W, Rugged Industrial Quality AC/DC Power Supply HBC 65-FT Series



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

This rugged AC/DC industrial quality power supply utilizes a field proven topology to generate the required output power. It is a mature design with a track record in numerous applications. Cooling is by conduction via baseplate to a heat-sinking surface and by natural convection. 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 contribute to high MTBF. The unit is manufactured at our plant under strict quality control. Customized versions and fan-cooled versions with increased output power are also available.

### SPECIFICATIONS

<p><b>Input Voltage</b> 115/230VAC ± 15% 47 - 63Hz Voltage selection by internal jumper Input also accepts 220-370Vdc range</p> <p><b>Input Protection</b> Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p><b>Isolation</b> 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p> <p><b>Standards</b> Designed to meet EN60950-1 and corresponding UL and CSA standards</p> <p><b>EMI</b> EN55022 Class A with margins</p> <p><b>Switching Frequency</b> 55KHz ±3KHz</p> <p><b>Hold Up Time</b> Minimum 10ms at full load for 5% drop of output voltage at nominal input</p>	<p><b>Output Voltage/Current</b> 12VDC/25A, 24VDC/12.5A, 48VDC/6.25A or 125VDC/2.4A Total output power 300W continuous Output is floating; either terminal can be grounded Other voltages on request</p> <p><b>Redundancy Diode</b> Installed on request</p> <p><b>Line/Load Regulation</b> ± 1% combined from zero load to full load</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>Output Ripple / Noise</b> Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)</p> <p><b>Output Overload Protection</b> Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)</p> <p><b>Output Overvoltage Protection</b> Double regulator loop completely stable and independent of main loop</p>	<p><b>Efficiency</b> Output voltage dependent. Typically 80% at full load</p> <p><b>Operating Temperature Range</b> 0°C to 50°C for full specification without de-rating. Extended temperature ranges available on request</p> <p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p> <p><b>Cooling</b> Conduction via base plate to customer heat-sink or chassis and natural convection</p> <p><b>Environmental Protection</b> Basic ruggedizing Heavy ruggedizing and conformal coating available as an option</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>MTBF</b> 150,000 at 45°C Demonstrated MTBF is significantly higher</p>	<p><b>Indicators</b> None on standard version</p> <p><b>Control Input</b> None</p> <p><b>Alarm Output</b> Output fail alarm Form C contacts installed on request</p> <p><b>Package/Dimensions (W x H x L)</b> F3: 132 x 62 x 300 mm (5.2" x 2.43" x 11.8" ) including terminal block and flanges Mounting holes are clear</p> <p><b>Weight</b> 2 kg (4.4 lb)</p> <p><b>Connections</b> 12 pole barrier type terminal block with 3/8" spacing</p> <p><b>RoHS Compliance</b> Fully compliant</p> <p><b>Warranty</b> 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 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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