

## 300W, Dual output, Rugged, AC/DC Industrial Power Supply HBC 265-FT Series

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



The HBC 265 Series rugged, dual output AC/DC industrial power supply uses field-proven technology to deliver 300W output power. It has an excellent track record in numerous applications. Cooling is by conduction via baseplate to a heatsinking surface and by natural convection. The unit has full electronic protection. Low component count, large design headrooms, and the use of components with established reliability result in a high MTBF. Additional ruggedizing and conformal coating are available for operation in extreme environments. An optional built-in redundancy diode allows for parallel and N+1 operation. 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 Auto-ranging available 250V or 350Vdc inputs also available</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 EN 60950 and corresponding UL and CSA standards</p> <p><b>EMI</b> EN55022 Class A, as minimum</p> <p><b>Switching Frequency</b> 55 kHz +/-3kHz</p> <p><b>Hold Up Time</b> Minimum 5ms at full load for 5% drop of output voltage at nominal input</p>	<p><b>Output Voltage/Current</b> Up to 200VDC per output Up to 15 Amps per output 300W with convection Up to 500W with forced air Consult factory for other voltages</p> <p><b>Redundancy Diode</b> None on standard version</p> <p><b>Line/Load Regulation</b> +/- 1% combined from 10% load to full load on main output; +/- 5% on second output</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 on main output</p>	<p><b>Efficiency</b> Output voltage dependent. Typically 80% at full load</p> <p><b>Operating Temperature Range</b> 0 to 50 °C for full specification without de-rating. Extended temp. range available</p> <p><b>Temperature Drift</b> 0.03% per °C over operating temperature range</p> <p><b>Cooling</b> Conduction to customer heatsink or chassis and natural convection</p> <p><b>Environmental Protection</b> Basic ruggedizing Full ruggedizing and conformal coating available as option</p> <p><b>Shock/Vibration</b> IEC 61373 Cat 1 A&amp;B</p> <p><b>Humidity</b> 5 – 95% non-condensing</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> None on standard version</p> <p><b>Package/Dimensions (WxHxD)</b> F3: 132 x 62 x 300 mm (5.2" x 2.43" x 11.8" ) including mounting flanges and terminals</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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