

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

Input Voltage 115/230VAC +/- 15% 47 - 63Hz Auto-ranging available 250V or 350Vdc inputs also available	Output Voltage/Current 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	Efficiency Output voltage dependent. Typically 80% at full load	Indicators None on standard version
Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit	Redundancy Diode None on standard version	Operating Temperature Range 0 to 50°C for full specification without de-rating. Extended temp. range available	Control Input None
Isolation 2250VDC input to chassis 4300VDC input to output; 8mm spacing 500VDC output to chassis	Line/Load Regulation +/- 1% combined from 10% load to full load on main output; +/- 5% on second output	Temperature Drift 0.03% per °C over operating temperature range	Alarm Output None on standard version
Standards Designed to meet EN 60950 and corresponding UL and CSA standards	Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time	Cooling Conduction to customer heatsink or chassis and natural convection	Package/Dimensions (WxHxD) F3: 132 x 62 x 300 mm (5.2" x 2.43" x 11.8") including mounting flanges and terminals
EMI EN55022 Class A, as minimum	Output Ripple / Noise Less than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)	Environmental Protection Basic ruggedizing Full ruggedizing and conformal coating available as option	Weight 2 kg (4.4 lb)
Switching Frequency 55 kHz +/-3kHz	Output Overload Protection Rectangular current limiting with short-circuit protection (no hiccup) Thermal shutdown in case of insufficient cooling (self resetting)	Shock/Vibration IEC 61373 Cat 1 A&B	Connections 12 pole barrier type terminal block with 3/8" spacing
Hold Up Time Minimum 5ms at full load for 5% drop of output voltage at nominal input	Output Overvoltage Protection Double regulator loop on main output	Humidity 5 – 95% non-condensing	RoHS Compliance Fully compliant
		MTBF 150,000 at 45°C Demonstrated MTBF is significantly higher	Warranty Two years subject to application within good engineering practice

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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