

500W, Rugged, Industrial AC/DC Fan Cooled Power Supply HBC 65F Series



- Industrial quality
- Single regulated and adjustable output
- Cooling by built-in fans
- Full electronic protection
- Field-proven design
- N+1 redundancy available

The HBC 65F Series rugged, industrial quality AC/DC power supply uses a field-proven design to generate 500W output power. It has an excellent track record in numerous applications. Cooling is by built-in fans, and additional conduction via baseplate. The unit features full electronic protection and low output noise. 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.

SPECIFICATIONS

Input Voltage 115/230VAC +/- 15% 47 - 63Hz Voltage selection by internal jumper	Output Voltage/Current 12VDC/40A, 24VDC/20A, 48VDC/10A or 125VDC/4A are standard. 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 Optional	Operating Temperature Range 0 to +50°C for full specification without derating. 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 zero load to full load	Temperature Drift 0.03% per °C over operating tempera range	Alarm Output None on the standard version Available as option
Standards Designed to meet EN60950 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 Forced air by built-in fans and additional cooling via base plate	Package / Dimensions (WxHxD) FF3: 153 x 61 x 295 mm (6.02" x 2.4" x 11.62) including fans, mounting flanges and terminals
EMI EN55022 Class B	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 Optional conformal coating and heavy ruggedizing	Weight 2.3 kg (5 lbs.)
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)	Humidity 5 – 95% non-condensing	Connections 12 pole barrier type terminal block, 3/8" spacing
Hold Up Time Min. 5ms at any input for 5% drop in output voltage	Output Overvoltage Protection Double regulator loop completely stable and independent of main loop	MTBF 150,000 hours @ 45°C Demonstrated MTBF is significantly higher	RoHS Compliance Fully compliant
			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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