

1500W Rugged, AC/DC Industrial Power Supply HBL 1K5F-FT Series



- Rugged, industrial quality
- Single phase 230Vac input
- Fan cooling
- Full electronic protection
- Field-proven design topology
- Good \$/W ratio

The HBL 1K5F series rugged industrial quality AC/DC power supply uses field-proven topology to generate 1500W output power. It is a mature design with a track record in hundreds of applications. Cooling is by built-in fans, and additional conduction via baseplate. Additional ruggedizing and conformal coating are available for operation in mobile applications. Low component count, large design headroom, and the use of components with established reliability result in a high MTBF. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 230Vac \pm15%; 47-63Hz</p> <p>Input Protection Inrush current limiting Varistor Surge protection Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Input Isolation/Safety 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN60950 and corresponding UL and CSA standards</p> <p>EMI Meets EN 55022 Class A as a minimum</p> <p>Switching Frequency 55 KHz \pm3KHz</p> <p>Hold Up Time Minimum 10ms at full load for 5% drop of output voltage @ 230V nominal input</p>	<p>Output Voltages 24Vdc/62A, 28V/53A, 48V/31A, 56V/27A or 125V/12A Other outputs on request</p> <p>Redundancy Diode None Available for customized versions. Please verify with factory.</p> <p>Line/Load Regulation \pm1% combined from zero load to full load</p> <p>Dynamic Response Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time</p> <p>Output Ripple/Noise Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)</p> <p>Overload Protection Rectangular current limiting with short circuit protection Thermal shutdown with automatic reset in case of insufficient airflow</p>	<p>Over-voltage Protection Double regulator loop completely stable and independent of main loop</p> <p>Efficiency Min 80% at full load</p> <p>Operating Temperature 0 to +50°C for full specification</p> <p>Environmental Protection Basic ruggedizing Optional heavy ruggedizing and conformal coating</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Forced air by built-in fans and additional cooling via base plate</p> <p>MTBF Min. 100,000 hours @45°C (fan not included) Demonstrated MTBF is significantly higher.</p>	<p>Indicators None</p> <p>Control Input None</p> <p>Alarm Output None on the standard version</p> <p>Package/Dimensions (WxHxL) FF6: 236 x 65 x 349 mm (9.28" x 2.55" x 13.75") including terminal block and flanges Mounting holes are clear</p> <p>Weight: 3.6 kg (8 lbs)</p> <p>Connections Input: 6-pole barrier type terminal block, 3/8" spacing Output: ¼" DIA brass studs or terminal block</p> <p>RoHS Compliance Fully compliant</p> <p>Warranty: Two years subject to application within good engineering practice</p>
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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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