

600W, Rugged, Low profile, Industrial Conduction/Convection Cooled Power Supply HBL 600-FT Series

- Rugged, industrial quality
- Low height: 1.5"
- Conduction/convection cooling, no fan
- Single phase input
- Full electronic protection
- Field-proven design
- N+1 redundancy available



The HBL 600 Series is a heavy-duty AC/DC power supply that utilizes a field-proven full-bridge design to deliver up to 600W, depending on output voltage. Cooling is by conduction via baseplate to a heatsinking surface and by natural convection. The unit features full electronic protection and low output noise. Low component count, large design headroom, 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. Customized versions and fan-cooled versions with increased output power are also available. The unit is manufactured at our plant under strict quality control.

SPECIFICATIONS

<p>Input Voltage 115/230Vac $\pm 15\%$; 47-63Hz Voltage selection by internal jumper 250Vdc (190 – 370V) Other voltages on request</p> <p>Input Protection Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit</p> <p>Isolation 2250VDC input to chassis 4300VDC input to output 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN 60950 and corresponding standards</p> <p>EMI Meets EN 55022 Class A minimum</p> <p>Switching Frequency 55 KHz +/-3KHz</p> <p>Hold Up Time Minimum 5ms at full load for 5% drop of output voltage at nominal input</p>	<p>Output Voltage/Current 24V/25A, 28V/21V 48V/12A, 56V/10A or 125V/5A Other outputs on request</p> <p>Redundancy Diode None Available as option</p> <p>Line/Load Regulation +/-1% combined</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>Output Overvoltage Protection Double regulator loop</p>	<p>Efficiency 80% at full load, depending on output voltage</p> <p>Operating Temperature 0°C to +50°C for full specification with proper cooling Wider temperature ranges as option</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction via base plate to customer chassis or heatsink and additional natural air convection through cooling slots</p> <p>Environmental Protection Basic ruggedizing Heavy ruggedizing and conformal coating as option</p> <p>MTBF 160,000 hours @ 45 °C Demonstrated MTBF is significantly higher.</p>	<p>Indicators None Available as option</p> <p>Alarm Outputs None Available as option</p> <p>Package/Dimensions (W x H x L) Open construction with base plate and isolating cover F6: 210 x 38 x 356 mm (8.3" x 1.5" x 14") including terminals and mounting flanges Mounting holes are clear</p> <p>Weight: Approx. 2.5 kg (5.5 lbs)</p> <p>Connections Input/output: barrier-type terminal block, 3/8" spacing</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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