

150W, Universal Input UPS/Battery Charger BCH 150 Series



- Rugged industrial quality
- Conduction/convection cooled - no fan
- Fully protected
- Field proven design
- Low battery disconnect circuit

The BCH 150 is a compact DC output UPS system with external battery. The built-in battery charger provides 150W total power for the output and for float charging the battery. The unit has a low battery disconnect circuit to prevent damage to the battery by low discharge during prolonged AC failure. A built-in charger fail alarm (F/O or F/C) indicates either failure of the charger circuit or loss of AC input power. The battery input is protected against accidental reverse battery connection by a crossbar diode and internal safety fuse. The battery must be fused externally directly to the battery. Low component count 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 <u>Mains Input:</u> 95Vac to 264Vac universal 47 - 63Hz <u>Battery Input:</u> 12V, 24V or 48V battery Other inputs available on request</p> <p>Input Protection <u>AC Input</u> Inrush current limiting Varistor Internal safety fuse Lower voltage than the specified minimum input will not damage the unit <u>Battery Input:</u> Internal safety fuse and crossbar diode Low battery disconnect circuit disengages battery Warning: Battery must be fused externally, directly at the battery</p> <p>Input Isolation 2250VDC input to chassis 4300VDC input to output, 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet EN 60950 and related standards</p> <p>EMI Meets EN 55022 Class A with margins</p>	<p>Switching Frequency 47kHz +/- 2kHz</p> <hr/> <p>Output Voltages/Currents 13.8V float voltage (12V battery) or 27.6V float voltage (24V battery) or 55.2V float voltage (48V battery) Output is floating, either terminal can be grounded Other output voltages on request</p> <p>Output Separation Diode Installed internally</p> <p>Line/Load Regulation ±1.5% combined from no load to full load including output separation diode</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 hiccup mode short circuit protection Thermal shut-down with automatic recovery in case of insufficient cooling Internal battery safety fuse on battery input</p> <p>Output Overvoltage Protection Double regulator loop, stable and independent of the main feedback loop</p>	<p>Efficiency Typically 80 - 90% at full load depending on output</p> <p>Operating Temperature 0°C to +50°C without derating. Extended temperature range available</p> <p>Battery Temp. Compensation Not available on this design</p> <p>Temperature Drift 0.03% per °C over operating temperature range</p> <p>Cooling Conduction to customer heatsink or chassis and natural convection</p> <p>Environmental Protection Basic ruggedizing Additional ruggedizing and conformal coating available</p> <p>Shock/Vibration IEC 61373 Cat 1 A&B</p> <p>Humidity 5 - 95% non-condensing</p> <p>MTBF 150,000h at 45°C Demonstrated MTBF is significantly higher</p>	<p>Indicators Charger ON LED visible through the cooling slots</p> <p>Control input None</p> <p>Alarm Outputs Charger fail F/O or F/C only (two terminals). Please specify on order</p> <p>Package/dimensions (WxHxL) F2: 114 x 58 x 256 mm (4.5"x 2.3" x 10.1") including terminal block and flanges Mounting holes are clear</p> <p>Weight 1.2 Kg (2.6 lb) approx.</p> <p>Connections 9-pole barrier type terminal block with 3/8" spacing for all connections</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 are 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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