

500W, SINGLE-OUTPUT UPS/BATTERY CHARGER BCH 500 SERIES

- Industrial quality
- Single regulated and adjustable output
- 500W output power
- Convection/conduction cooling
- Full electronic protection
- Field-proven design
- Also available as plug-in module



The BCH 500 Series battery charger utilizes high frequency conversion topology to generate 500W from a 115 or 230Vac ($\pm 15\%$) input and provides output voltages from 12Vdc to 125Vdc. This design features low component count and high efficiency. The use of high quality components and rigorous quality control results in an MTBF exceeding 150,000 hours at 45°C. This unit has a Form C charger fail alarm and the output is protected against accidental reverse battery connection by a crossbar diode and an external battery fuse. (Internal safety fuse is available as an option).

SPECIFICATIONS

<p>Input Voltage 115/230VAC +/- 15% Jumper selectable 47 - 420Hz</p> <p>Input Protection Internal safety fuse Inrush current limiting Surge protection Lower voltage than the specified minimum input will not damage the unit</p> <p>Input Isolation 2250VDC input to chassis 4300VDC input to output, 8mm spacing 500VDC output to chassis</p> <p>Standards Designed to meet IEC950, CSA 22-2-950 and UL 60950</p> <p>EMI Meets EN 55022 Class A as a minimum</p> <p>Switching Frequency 47kHz +/- 2kHz</p>	<p>Output Voltages/Currents Any output voltage from 12Vdc to 125Vdc</p> <p>Redundancy Diode Yes</p> <p>Line/Load Regulation $\pm 1.5\%$ combined from no load to full load</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 Thermal shut-down with automatic recovery in case of insufficient cooling</p> <p>Output Overvoltage Protection Double regulator loop, stable and independent of the main feedback loop</p>	<p>Efficiency Min 80% at full load</p> <p>Operating Temperature 0 to +50°C without de-rating. Extended temperature range available</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</p> <p>MTBF 150,000h at 45°C</p> <p>Indicators Visible through cooling slots</p> <p>Battery Temp. Compensation None</p>	<p>Battery Reverse Protection Crossbar diode. Customer must provide external battery fuse. Internal battery fuse is available as option</p> <p>Low Battery Disconnect None.</p> <p>Alarm Outputs Charger Fail Form C</p> <p>Dimensions F4: 5.1" x 2.63" x 13.82"</p> <p>Weight 2.0 kg (4.4 lb) approx.</p> <p>Connections 12-pole barrier type terminal block with 3/8" spacing for all connections. No separate terminals for battery.</p> <p>RoHS Compliance According to requirements</p> <p>Warranty Twelve months 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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