

150W, UNIVERSAL INPUT UPS/BATTERY CHARGER

BCH 150 SERIES

(formerly BCH 1663 Series)

- Industrial quality
- Competitive price
- Input 95VAC-264VAC
- Conduction/convection cooled - no fan
- Fully protected
- Single output
- Made in North America



The BCH 150 series unit is a universal AC input 150W DC output UPS. Field-proven circuitry ensures high efficiency and outstanding reliability. The input accepts any AC voltage from 95V to 264V as well as DC voltage from 120V to 360V. The BCH 150 is designed to meet approval requirements, is conduction/convection cooled and fully protected. This unit has a charger fail alarm and low battery disconnect. The battery input is protected against accidental reverse battery connection by a crossbar diode and safety fuse with a 3-times higher Amp rating than output fuse.

SPECIFICATIONS

Input Voltage

95Vac to 264Vac
47 - 63Hz
120Vdc to 360Vdc

Input Protection

Internal safety fuse
Inrush current limiting
Surge protection
Battery fuse
Lower voltage than the specified minimum input will not damage the unit

Input Isolation

2250VDC input to chassis
4300VDC input to output,
8mm spacing
500VDC output to chassis

Standards

Designed to meet IEC950,
CSA 22-2-950 and UL 60950

EMI

Meets EN 55022 Class A as a minimum

Switching Frequency

47kHz +/- 2kHz

Output Voltages/Currents

13.8V/10A, 27.6V/5.4A
(55.2V/2.7A as special version).
Consult factory for other voltages

Line/Load Regulation

±1.5% combined from no load to full load

Output Ripple/Noise

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)

Overload Protection

Rectangular current limiting
Hiccup mode at short circuit or massive overload. Thermal shut-down with automatic recovery in case of insufficient cooling
Output fuse
Battery safety fuse with 3-times rating of output fuse

Output Overvoltage Protection

Double regulator loop, stable and independent of the main feedback loop

Efficiency

Min 80% at full load

Operating Temperature

0 to +50°C without de-rating. Extended temperature range available

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction to customer heatsink or chassis and natural convection

MTBF

150,000h at 45°C

Indicators

Charger "ON" LED visible through cooling slot

Battery Temp. Compensation

None

Battery Reverse Protection

Crossbar diode and fuse

Low Battery Disconnect

Installed to prevent battery from deep discharge.

Alarm Outputs

Rectifier fail F/O or F/C only (two terminals).
Please specify on order

Environmental Protection

Basic ruggedizing

Dimensions

F2: 4.4"x 2.2" x 10"

Weight

1.1 kg (2.5 lb) approx.

Connections

9-pole barrier type terminal block with 3/8" spacing for all connections

RoHS Compliance

According to requirements

Warranty

Twelve months 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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