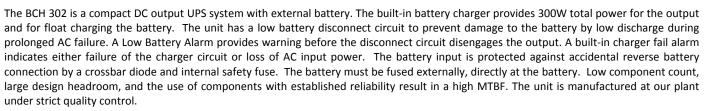
300W, Industrial Quality UPS/Battery Charger **BCH 302 Series**

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



SPECIFICATIONS

Input Voltage

Mains input: 115/230Vac +/- 15% (47 - 420Hz) jumper selectable

Battery input:

12V, 24V, 48V or 125V

Other inputs available on request

Input Protection

AC Input

Inrush current limiting Varistor

Internal safety fuse

Lower voltage than the specified minimum input will not damage the unit

Battery Input: Internal safety fuse and crossbar diode

Low Battery Disconnect circuit disengages battery

Warning: Battery must be fused externally, directly at the battery

Input Isolation

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

Standards

Meets EN60950 and corresponding UL and CSA standards

EN55022 Class A with margins

Switching Frequency

55kHz ±3kHz

Output Voltages/Currents

13.8V float voltage (12V battery) or 27.6V float voltage (24V battery) or 55.2V float voltage (48V battery) or 138V float voltage (125V battery) Output is floating, either terminal can be grounded Other outputs available on request

Output Separation Diode

Installed internally

Line/Load Regulation

±1.5% combined from no load to full load including built in separation

Output Ripple/Noise

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

Overload Protection (without battery)

Rectangular current limiting with hiccup type short-circuit protection Internal safety fuse on battery input In the case of an accidental shorting of the output, the external battery fuse Humidity shall blow.

Output Overvoltage Protection

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

Efficiency

Min 80% at full load

Operating Temperature

0°C to +50°C for full specification with natural convection cooling Wider temperature ranges available on request

Battery Temp. Compensation

Not on this design Available as an option

Temperature Drift

0.03% per °C over operating temperature range (without BTC)

Conduction to customer heatsink or chassis and natural convection

Environmental Protection

Basic ruggedizing Additional ruggedizing and conformal coating available

Shock/Vibration

IEC 61373 Cat 1 A&B

5 - 95% non-condensing

MTBF

130.000h at 45°C Demonstrated MTBF is significantly higher

Indicators

Charger ON LED visible through the cooling slots

Alarm Outputs

Charger/AC fail alarm, Fail Close Low Battery Alarm, Fail Close with common return

Package/Dimensions (W x H x L)

F4: 130 x 64 x 353 mm (5.1" x 2.5" x 13.9) including terminal block and flanges. Mounting holes are clear

Weight

2.2 kg (4.9 lb) approx.

Connections

12-pole terminal block with 7.62mm spacing for all connections, including alarm

RoHS Compliance

Fully compliant

Warranty

Two years subject to application within good engineering practice

