BCH800-1K SERIES

Battery Charger / Power Supply: 800 ~ 1000 Watts





Features

Convection cooled: No fans

Two power levels: 800 & 1000 watts

Fully isolated input – output

· Over voltage protection

Overload and short circuit protection

Inrush current limiting

MTBF > 150,000hrs

Any output from 24vdc ~ 120vdc possible

Customised mechanical solutions on request

Power Fail / Charger Fail Alarm

Battery Low Alarm

Specifications

Input Voltage 230VAC (190 ~ 264)

Input Frequency 47 ~ 63Hz

Input Current 9.5A

Input Protection Inrush current limiting

Transient protection / Varistors

Internal safety fuse

Isolation Input – Output: 4300vdc

Input - Chassis 2250vdc Output - Chassis 500vdc

Efficiency Typically 80%

Output voltage See table

Output Power 800 ~ 1000 watts

Voltage adjustment 24V: 24-28V

48V 48-56V 96V: 108-127V 108V: 108-127V

EMC EN55022 Class A

Immunity EN 61000-4-2 (ESD)

EN 61000-4-3 (RF Immunity) EN 61000-4-4 (Fast Transients) EN 61000-4-6 (Conducted Imm.)

Switching Freq. Typically 55KHz

Output Diode Internally fitted output isolation diode

Parallel operation Yes

Regulation Line: ±1% Load: ±1.5%

Output Ripple/Noise Typically <1% of output voltage

Overload Protection Constant current limiting with short circuit

protection.

Battery must be externally fused.

Thermal Protection Thermal shutdown with auto recovery, when

unit cools down.

Overvoltage Protection Yes. Recycle mains input to re-set

Operating Temp. 0°C to +50°C at full load.

Derate 2.5% per °C to +70°C.

Temperature Drift 0.03% per °C over operating range

Description

The **BCH800 & BCH1000** series battery charger is a rugged, industrial-grade product, using field- proven design suitable for use in DC battery back-up applications.

It is a mature product providing excellent reliability and performance and delivering up to 1000 watts of output power with convection/conduction cooling. ...NO Fans.

The two alarms provide external monitoring of Power Fail / Charger Fail and Battery Low via voltage free contacts. The chassis-mount design feature allows for easy mounting.

Additional ruggedizing and conformal coating are available for applications requiring higher immunity to shock, vibration, humidity, moisture, dust and insects.

Options

TBC Temperature Battery Compensation Charging

TIM Automatic Battery Testing
Boost A variety of boost options

Specifications Cont.

Cooling Conduction / convention cooled via base plate.

Shock & IEC61373 Cat 1 A&B

Vibration

Humidity 5-95% non-condensing

MTBF >150,000hrs @ 45°C

Indicator Green LED visible through cooling slots

Alarm Output • Power Fail / Charger Fail Alarm

Low Battery Alarm

Both Alarms are CLOSE FAIL with common return Low battery only operative if power / charger fails.

Connections Terminal block / barrier strip with 3/8"spacing

Dimensions 351 x 210 x 66mm (F6)

Weight 3.5kg

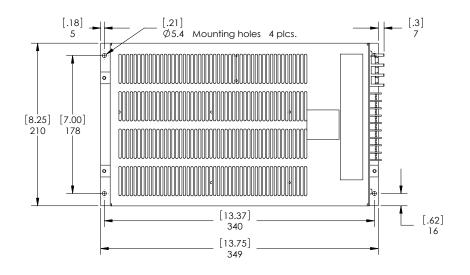
BCH800-1K SERIES

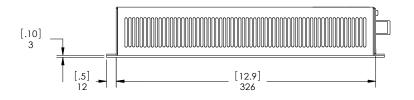
Battery Chargers: 800 ~ 1000 Watts

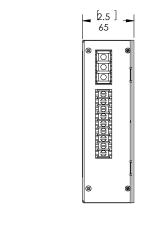


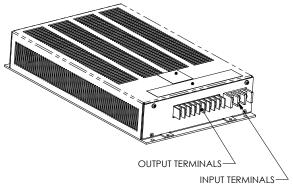
Model		Output		Power
	Nom V	Float V	Α	W
BCH800-28FT	24V	27.6V	29A	800W
BCH800-55FT	48V	55.2V	14A	800W
BCH1K-110FT	96V	108.0V	8.0A	990W
BCH1K-110FT	108V	124.0V	8.0A	990W

¹¹⁰V model adjustable for use on 96V or 108V nominal battery systems









OUTLINE DRAWING F6 PACKAGE