BCH800-1K SERIES (19in Rack Mount)

Battery Charger / Power Supply: 800 ~ 1000 Watts





Features

- 2U x 19in Rack Mount
- Convection cooled: No fans
- Two power levels: 800 & 1000 watts
- Fully isolated input output
- Over voltage, Overload and short circuit protection
- Inrush current limiting
- MTBF > 150.000hrs
- Any output from 24vdc ~ 120vdc possible
- Power Fail / Charger Fail Alarm
- Battery Low Alarm
- Distribution / Battery Circuit Breakers Option
- Digital Meters Option

Specifications

Input Voltage 230VAC (190 ~ 264)

47 ~ 63Hz Input Frequency

Input Current 9.5A

Inrush current limiting **Input Protection**

Transient protection / Varistors

Internal safety fuse

Isolation Input - Output: 4300vdc

Input - Chassis 2250vdc Output - Chassis 500vdc

Efficiency Typically 80%

See table **Output voltage**

Output Power 800 ~ 1000 watts

Voltage adjustment 24V: 24-28V

> 96V: 108-127V 108V: 108-127V

48-56V

48V

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.

0.03% per °C over operating range **Temperature Drift**

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.

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 CB Various Circuit Breaker options

Specifications Cont.

Cooling Conduction / convention cooled.

Shock & IEC61373 Cat 1 A&B

Vibration

Connections

Humidity 5-95% non-condensing

MTBF >150,000hrs @ 45°C

LED on front panel Indicator

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

Dimensions 2U x 19in x 420mm Rack Mount

Weight 4.5kg

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Battery Chargers: 800 ~ 1000 Watts



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

Notes:

- For Digital Meters, change part no to: RMM-BC800-xxx / RMM-BCH1K-xxx
- 110V model adjustable for use on 96V or 108V nominal battery systems



Fig 1: Example of 2U x 19in Rack Mount model, with optional Digital Meters Dimensions: 2U x 19in x 420mm depth. Rear panel Connections:

- IEC socket for mains AC Supply
- Screw terminals for DC Output (Load & Battery)
- Screw terminals for Alarms