BCH1K5F / BCH2KF SERIES

Battery Chargers: 1000 ~ 2000 Watts





Features

- Three power levels: 1KW, 1.5KW & 2KW
- Industrial grade product
- 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 1kw, 14A 1.5kw, 19A 2kw

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 1000 ~ 2000 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

Overvoltage

Operating Temp.

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.

Yes. Recycle mains input to re-set

Thermal Protection Thermal shutdown with auto recovery, when

unit cools down.

Protection

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 $BCH1K \sim 2K$ 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 2000 watts of output power.

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 imm unity to shock, vibration, humidity, moisture, dust and insects .

Options

TBC Temperature Battery Compensation Charging

TIM Automatic Battery Testing
Boost A variety of boost options

Package FF6 & F6W

Specifications Cont.

Cooling Fan cooled

Shock & IEC61373 Cat 1 A&B

Vibration

Connections

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

Dimensions BCH1K5F/BCH2KF Varies

349 x 237 x 66mm (FF6 Package)

356 x 254 x 65mm (F6W Package)

Weight 3.6kg

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Battery Chargers: 1000 ~ 2000 Watts

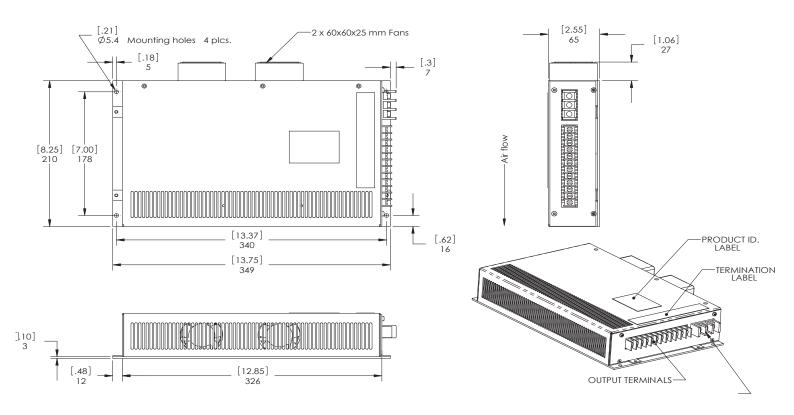


Model		Power		
	Nom V	Float V	Α	W
BCH1KF-28FT	24V	27.6V	36A	1000W
BCH1KF-55FT	48V	55.2V	18A	1000W
BCH1K5F-28FT	24V	27.6V	50A	1400W
BCH1K5F-55FT	48V	55.2V	27A	1500W
BCH1K5F-110FT	96V	108.0V	12A	1500W
BCH1K5F-110FT	108V	124.0V	12A	1500W

Model		Power			
	Nom V	Float V	Α	W	
BCH2KF-28FT	24V	27.6V	70A	2000W	
BCH2KF-55FT	48V	55.2V	36A	2000W	
BCH2KF-110FT	96V	108.0V	16A	2000W	
BCH2KF-110FT	108V	124.0V	16A	2000W	

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

BCH1KW ~ BCH2KW - FF6 Package



DC OUTPUT						ALARMS			23	230VAC INPUT				
+	+	+	+	+ LED	-	æ	1	-	сом	LBA	CFA	GND	22	PH ∼
1_	2	3	4	5	- 6	7	8	9	10	11	12	1	2	3

