SBH800 - SBH1000 Series 800W -1000W Battery Charger



- Float Battery Chargers
- Typical Voltages: 24V 48V 96V 108V
- Power Level: 800W 1000W
- Convection cooled: No fans
- Isolated input output
- Over voltage protection
- · Overload and short circuit protection
- MTBF > 150,000hrs
- AC Fail Alarm and Battery Low Alarm



Model Selection Table

Model Number	Description
SBH800-24	AC/DC Battery Charger Input: 230VAC 50Hz Output: 27.6 VDC 29A Isolation Diode AC fail alarm Battery low alarm
SBH1000-48	AC/DC Battery Charger Input: 230VAC 50Hz Output: 55.2 VDC 15A Isolation Diode AC fail alarm Battery low alarm
SBH1000-96	AC/DC Battery Charger Input: 230VAC 50Hz Output: 108 VDC 8A Isolation Diode AC fail alarm Battery low alarm
SBH1000-108	AC/DC Battery Charger Input: 230VAC 50Hz Output: 124 VDC 8A Isolation Diode AC fail alarm Battery low alarm

Description

The SBH1000 is a compact, industrial quality float battery charger suitable for DC backup applications with the use of an external battery. The unit provides 800W - 1000W total power to be shared between the battery and load. Two built in alarms provide AC fail and Battery low, the alarms are through voltage free form C contacts. The battery input is protected against accidental reverse battery connection by a crossbar diode and internal Saftey fuse. An external safety fuse must be connected directy at the battery. The SB1000 has a high MTBF of 150 Khours , this is achieved through the use of low component count and a high design margin and through strict quality control.

Specifications

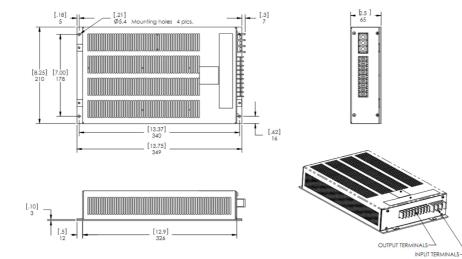
Input Voltage	230VAC (190 ~ 264)
Input Frequency	47 ~ 63Hz
Input Current	9.5A
	Inrush current limiting
Input Protection	Transient protection / Varistors
	Internal safety fuse
	Input - Output: 4300vdc
Isolation	Input - Chassis 2250vdc
	Output - Chassis 500vdc
Efficiency Typically	Typically 80%
Output voltage	See selection table
Output Power	800-1000 watts
	24V: 24-28V
Voltage adjustment	48v: 48-56V
	108V: 108-127V
	Radiated to EN55022 Class A
EMC	Immunity to EN 61000-4-2 (ESD) EN 61000-4-3 (RF Immunity) EN 61000-4-4 (Fast
	Transients) EN 61000-4-6 (Conducted Immunity)
Switching Freq.	Typically 55KHz
Output Diode	Internally fitted output isolation diode

Snaptec Australia Pty. Ltd.

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Parallel operation	Yes
Regulation Line:	Line: ±1% Load: ±1.5%
Output Ripple/Noise	Typically less than 1% of output voltage
Protection	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 Recycle mains input to reset
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
Cooling	Conduction / convection cooled via base plate
Shock and Vibration	IEC61373 CAT 1 A&B
Humidity	95% non condensing
MTBF	Greater than 150,000 hours at 45'C
Indicator	Green LED visible through cooling slots
	Alarm 1: AC fail or charger fail
Alarma autorit	Alarm 2: Low battery
Alarm output	Both alarms are close FAIL with common return
	Low battery only works if the AC fails
Connections	Terminal block / barrier strip with 3/8" spacing
Dimensions	351 x 210 x 66mm
Weight	3.5KG

SBH1000 Mechanical Drawing



OUTLINE DRAWING F6 PACKAGE