

# HB5 SWITCH-MODE CHARGER



## Standard Features

- Wide range AC input
- AC Input and DC output breakers
- Filtered output for valve regulated batteries
- Back lit 2 line LCD display with 4 button user interface
- Modbus RS485 Communications
- 4 mode equalize – manual, 30 day, start up and AC fail
- Form C alarm relays.
- Temperature compensation
- MTBF 200,000 hours
- MTTR 20 minutes


## Battery Monitor Option

Monitors and protects one battery string providing mid point monitoring, amperage reading (via built in shunt) and a low voltage disconnect to prevent excessive discharge.

## Input / Output

Input Voltage (wide range):	85 - 264 VAC (45/65Hz)
Output Voltage:	12V (10A) 24V (2.5/5/10/20A) 48V (2.5/5/10A)

## Specifications

Regulation:	+/- 1%
Short Circuit Protection:	Electronically Current Limited
Enclosure:	NEMA 1
Efficiency:	> 92%
Soft start:	Electronic soft start
Ripple:	50mV
Operation:	-5° to 50° C
Option:	Extended temperature -20° to 60° C
Approvals:	

## Settings

Float /Equalize/LVD Voltage:	12V Systems - 11 to 15.7VDC 24V Systems - 22 to 29.2 VDC 48V Systems - 51 to 57.8 VDC
Current Limit:	70 to 115%
Equalize Time:	0 to 24 hours

## Alarms

Equalize	Activated by 1 of the 4 equalize modes.
Low Battery Voltage	Below set point for more than 5 seconds
High Battery Voltage	Battery voltage more than .6V above set point
AC Fail	No AC present for more than 5 seconds
Rectifier Fail	Low voltage / low current
GND Fault Detection	When + or - is grounded (no Form C relay)
Common Alarm	Activated by any of the above alarms

## Mechanical

Dimension :	12.2"H x 8.2"W x 7.75"D
Weight:	6.6 to 10.5 lbs depending on model

## Available Models

12 Volt:	HB5-12/xx-AB-1 (10)
24 Volt:	HB5-24/xx-AB-1 (2.5/5/10/20)
48 Volt:	HB5-48/xx-AB-1 (2.5/5/10)

## Warranty

18 months from date of sale

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