



RIC
electronics Ltd.

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PRODUCT SPECIFICATIONS

HB4 SWITCH-MODE CHARGER

Description

Utilizing the latest switch-mode technology, the HB4's compact design allows for Float and Equalize of 12V,24V,32V,36V and 48V batteries. The HB4 charger accepts universal input voltage and incorporates digital control for optimized and customized output settings.

Temperature compensation maintains a safe charging environment while ensuring a long battery life time. The LCD display and relays provide all pertinent information regarding the battery charger health and status to the operator.



Applications

- Utility, Switchgear, and Substations
- Oil and Gas
- Pulp and Paper
- Department of National Defense
- Municipal and General Industrial
- Data Centers & Telecommunications
- Hospitals and Laboratories
- Solar Power Systems
- SCADA and Control Systems
- OEM Applications

Standard Features

- Switch Mode Design
- Wide range AC input (Optional DC input)
- AC input and DC output breakers
- Filtered output for valve regulated batteries
- 4 mode equalize – manual, 30 day, start up and AC fail
- Form C alarm relays
- Temperature compensation (Optional temperature probe required)
- MTBF 200,000 hours



Alarms and Monitoring

Equalize
Low Battery Voltage
High Battery Voltage
AC Fail
Rectifier Fail
Common Alarm

Activated by 1 of the 4 equalize modes.
Below set point for more than 5 seconds
Battery voltage more than 0.6V above set point
No AC present for more than 5 seconds
Low voltage / low current
Activated by any of the above alarm

Technical Specifications

Regulation:	+/- 1%
Short Circuit Protection:	Electronically Current Limited
Enclosure:	NEMA 1
Efficiency:	>91%
Soft start:	Electronic soft start
Ripple:	50mV
Operation:	-20° to 40° C
Option:	Extended temperature -40° to 40° C
Approvals:	CSA 107.1/107.2/UL 1012
Input Voltage (wide range):	85 - 264 VAC (45/65Hz)
Available Models:	
12 Volt:	HB4-12/xx-AB-1 (10/20/30)
24 Volt:	HB4-24/xx-AB-1 (2.5/5/10/20/40)
32 Volt:	HB4-32/xx-AB-1 (10/20)
36 Volt:	HB4-36/xx-AB-1 (10/20)
48Volt:	HB4-48/xx-AB-1 (2.5/5/10/20)

Available Options



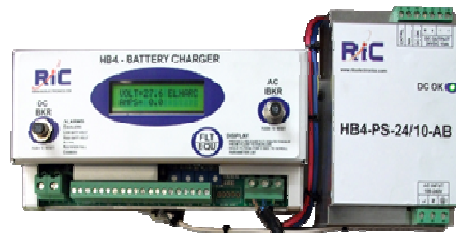
Integrated Battery Racks



Redundant Configuration



19" or 23" rack-mount



DIN rail-mount or OEM Special

Warranty

18 Months from Date of Sale