

DESCRIPTION

The DRBC-1 Dual Rate Battery Charger is a solid-state, fully automatic device that will provide sufficient current to maintain compatible rechargeable batteries at full charge regardless of variations in line voltage or load.

Two charging modes are provided: FLOAT, which maintains a charged battery in fully charged condition and HIGH RATE, which permits a discharged battery to be charged rapidly. The charger senses the battery condition by monitoring the current drawn by the battery at a particular cell voltage. If the battery attempts to draw more than a specified amount of current from the charger, it will automatically switch to the High Rate mode and maintain a high rate of charge current until the batteries requirements are met. The DRBC-1 will then automatically switch to the Float mode.

The DRBC-1 may provide system compatible battery supervision, high rate indication and self-contained trouble indications with audible trouble silence (with "ring-back"). Over-current and reverse polarity protection are provided as well as internal fuse protection.

The charger is enclosed in a louvered 16 gauge steel enclosure 12" W x 13" H x 4" D (30.48 x 33.02 x 10.16 cm) with a viewing window to readily show all status indicators without opening the cabinet.



FEATURES

- Two Charging Modes**
- Self-contained**
- Trouble Sounder with "Ringback" Silence Switch**
- Output for FCI Model RTI Remote Trouble Indicator**
- Battery Supervision**
- Fully Automatic**
- Solid State Design**
- D.C. Voltage Regulation**
- Electronic Current Limiting**

AGENCY APPROVALS

UL (Std 864)	S2464
C.S.F.M.	7300-0694:103

SPECIFICATIONS

Input voltage	120 VAC +10%, -15%, 60 Hz	
Input current	2.5 amperes max.	
Output voltage	24 VDC nominal*	
Output current	5 amperes nominal	
Charge rate	4.5 ampere hours per hour (dependent upon battery state of charge)	
Voltage stability	1% with line variation	
Operating temperature	32° F to 120° F (0° C to 49° C)	
Operating humidity	85%	
Functional switches	"HIGH-RATE" "TROUBLE SILENCE"	
Indicators	"AC "	Green LED
	"TROUBLE"	Yellow LED and audible trouble sounder.
	"HIGH RATE"	Red LED
	DC Ammeter	Indicates battery charging current
	DC Voltmeter	Indicates battery terminal voltage

NOTE: *The nominal output voltage can be adjusted internally to accommodate any common 24 VDC battery type. Specifications are provided for information only, are not intended to be used for installation purposes, and are believed to be accurate. However, no responsibility is assumed by Fire Control Instruments, Inc. for their use. Specifications subject to change without notice. © 1997 All Rights Reserved