

Operating Instructions

RAILROAD MAINTENANCE CHARGER

DESCRIPTION:

This document is an addendum to the standard manual for the **SCR/SCRF Series Battery Charger - Three Phase Input**. The Railroad Maintenance Charger (*RMC*) is a portable motive power charger designed for automatic recharging of 32-cell lead acid batteries.

INSTALLATION:

No permanent installation is necessary. Connect the DC cable clamps to the battery or DC buss. Ensure proper polarity of the DC cable leads. The positive cable is marked with red sleeving. When you connect the cables properly, the "BATTERY CONNECTED" indicator on the charger front panel turns on.

CAUTION: If you should inadvertently connect the DC cables with reverse polarity, the DC fuses (F1 and/or F2) in the charger will blow. This is normal, and protects both the battery and charger. Do not proceed until you replace the fuse(s). Disconnect both the AC and DC power cables before opening the charger. After you replace the fuse(s), be sure to reconnect the DC cables with the proper polarity.

To connect the AC power, plug the line cord into a properly rated receptacle. Check the data nameplate to be sure you have the proper AC input voltage, and that the feeder breaker or fuse is properly rated. The *RMC* is not sensitive to phase rotation.

Place the temperature compensation probe handle side up, on top of the battery to be charged. The rubber apron should form a good seal with the top of the battery.

START-UP:

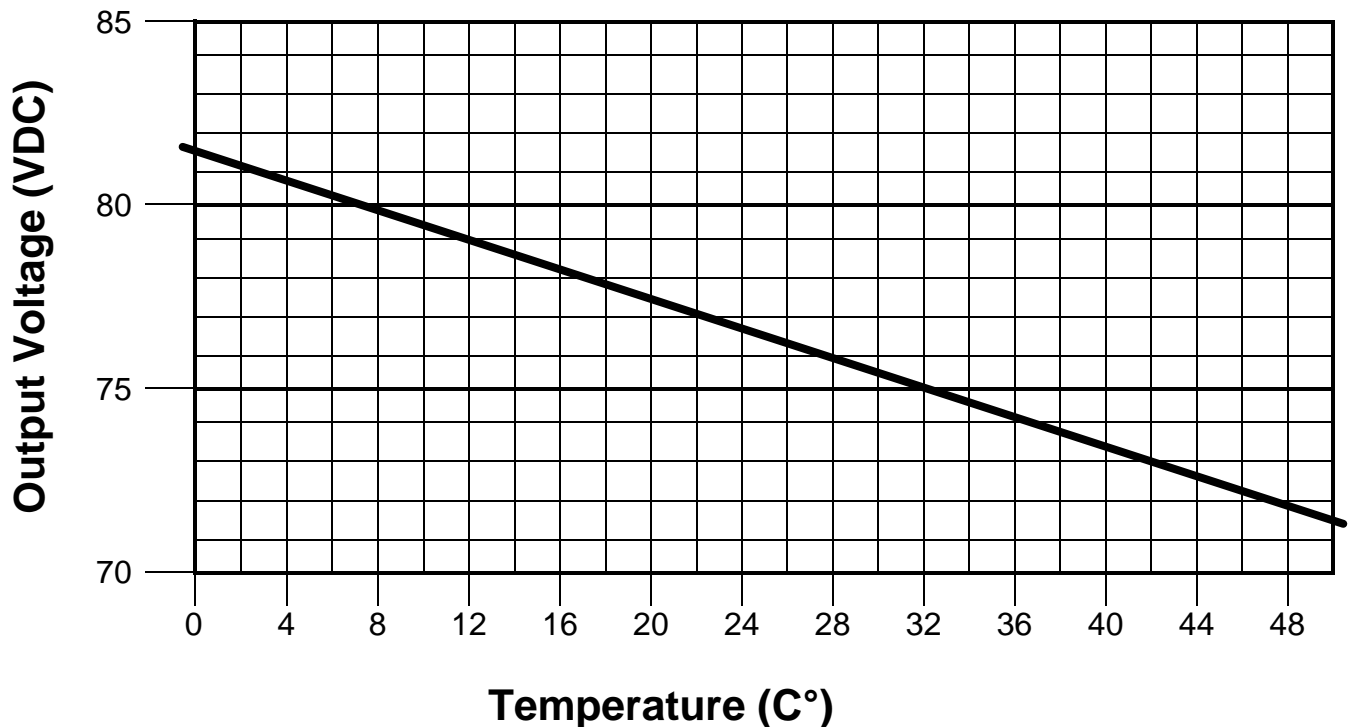
Starting the charger by pushing the "**CHARGE START/STOP**" toggle switch up toward the "**START**" position. The "**CHARGING**" indicator on the front panel turns on.

NOTE: If you need to stop the *RMC* for any reason, you can turn it off by pushing the "CHARGE START/STOP" toggle switch down toward "STOP" position. When you restart the charger, it will start the charging cycle from the beginning.

While the battery is charging, the front panel meters indicate the charger output voltage and current. As the battery approaches full charge, the current gradually decreases. When the current decreases to 15 Amperes, the End Of Charge timer (K51) starts, and the "**TIMER ON**" indicator on the front panel turns on. After three (3) hours, or the time selected by your facility, the charger turns off automatically, and the "**CHARGE COMPLETE**" indicator on the front panel turns on.

ADJUSTMENTS:

Remove the bracket covering the lower part of the timer. Adjust the three (3) thumbwheels in the center to the desired number of hours for the finish charge. The left thumbwheel should always be set to "B". Replace the bracket over the timer to prevent damage to the thumbwheels. The timer is factory-set to finish charging after 3 hours.

TEMPERATURE COMPENSATION GRAPH:**Lead Acid Batteries (64V)****RELATED DOCUMENTS:**

- JA5010-00** Operating & Service Instructions SCR/SCRF Series Battery Charger - Three Phase Input
- JE5050-00** Railroad Maintenance Charger (RMC) Series Drawing List / Data Nameplate Detail
- JE5051-00** Railroad Maintenance Charger (RMC) Series Outline NEMA-1 Style-2 Enclosure w/Casters
- JE5052-00** Railroad Maintenance Charger (RMC) Series Internal Component Layout Detail
- JE5053-00** Railroad Maintenance Charger (RMC) Series Instrument Panel Detail
- JE5054-00** Railroad Maintenance Charger (RMC) Series Schematic
- JE5055-00** Railroad Maintenance Charger (RMC) Series Connection Diagram