

DESCRIPTION

This document is an addendum to the standard Operating & Service Manual for the **SCR/SCRF Series Battery Charger - Three Phase Input**. The Railroad Maintenance Charger (**RMC**) is a portable motive power rectifier, 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 bus. Ensure proper polarity of the dc cable leads. The positive (+) battery cable is marked with red sleeving. When you connect the cables properly, the "**BATTERY CONNECTED**" indicator on the battery 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 RMC 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.

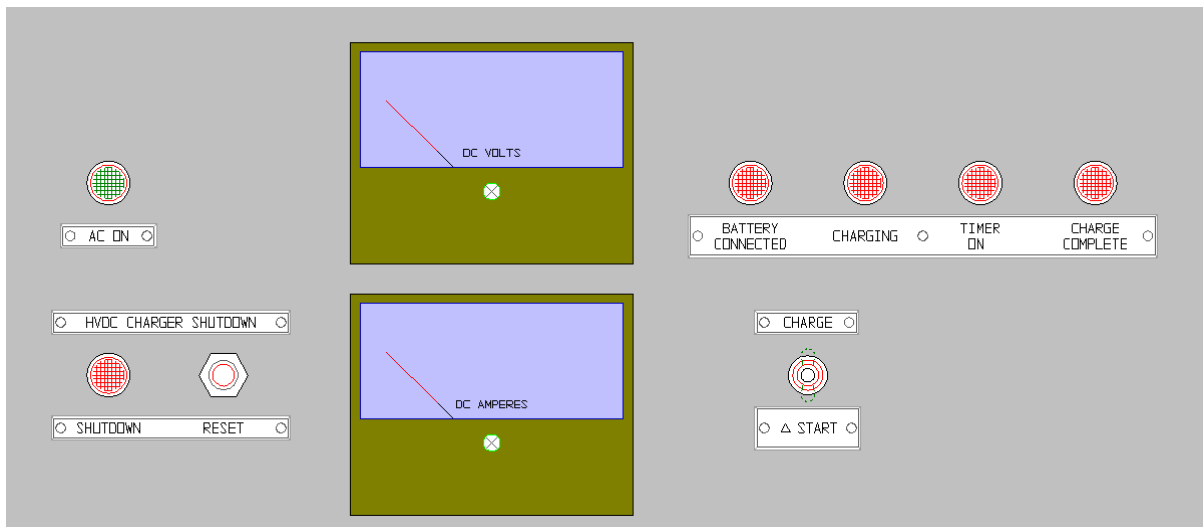
To connect the ac power, plug the line cord into a properly rated receptacle. Check the data nameplate to be sure you have the proper ac input voltage, and that the feeder breaker or fuse is properly rated. The **RMC** is not sensitive to phase rotation.

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

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.



Operating Instructions

RAILROAD MAINTENANCE CHARGER (RMC)

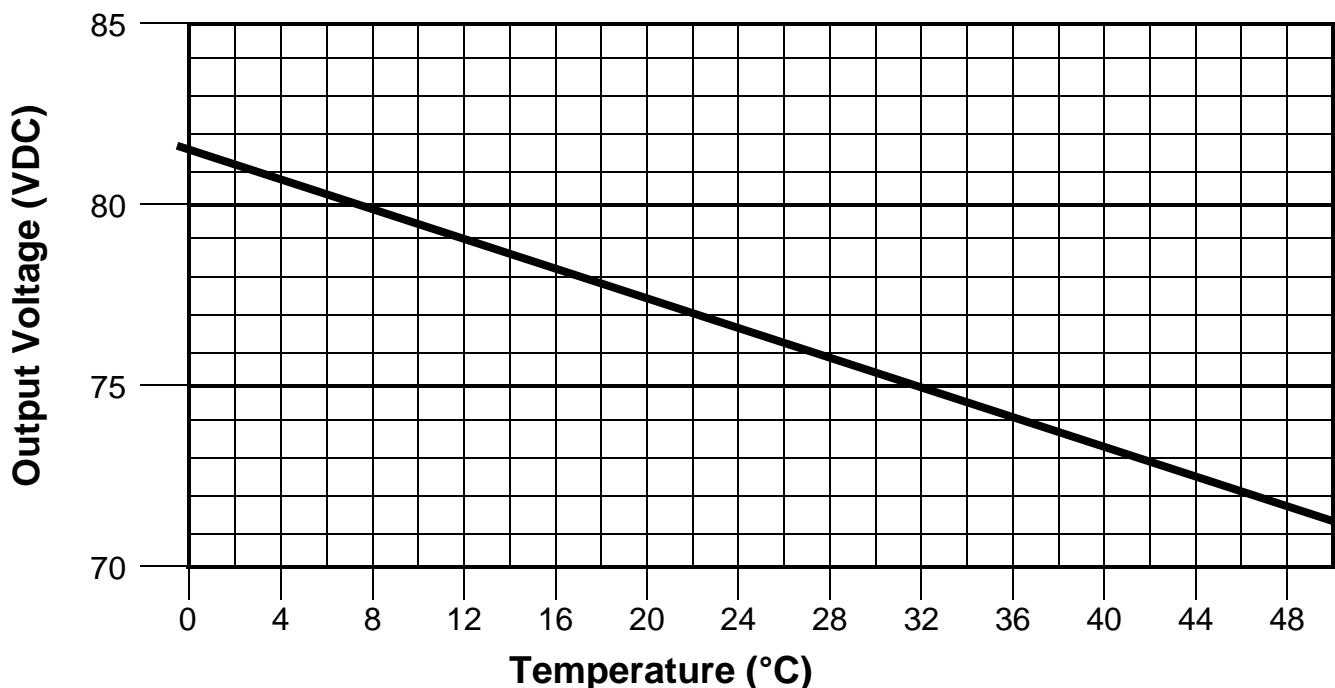
ADJUSTMENTS

Open the front panel door, and identify the adjustable relay (K51), bucket-mounted on the right side of the enclosure. 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 three (3) hours.

The RMC features a Low Battery Voltage Charger Output Disable feature, which shuts down operation of the charger if the measured external dc bus voltage is lower than 12Vdc. This feature is shipped from the factory *disabled*, so the RMC may be used on batteries that are completely discharged. To enable this feature, refer to the RMC schematic (**JE5054-00**) and connection diagram (**JE5055-00**), and attach wire# 1300.RD. to the main control pc board (A1-H). To disable this feature, merely unplug wire# 1300.RD. from A1-H, making sure it is still secured to the harness.

TEMPERATURE COMPENSATION GRAPH

Lead Acid Batteries (64V)



RELATED DOCUMENTS

JA####-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-2 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: BB5000-00
JE5055-00	Railroad Maintenance Charger (RMC) Series Connection Diagram: BB5000-00