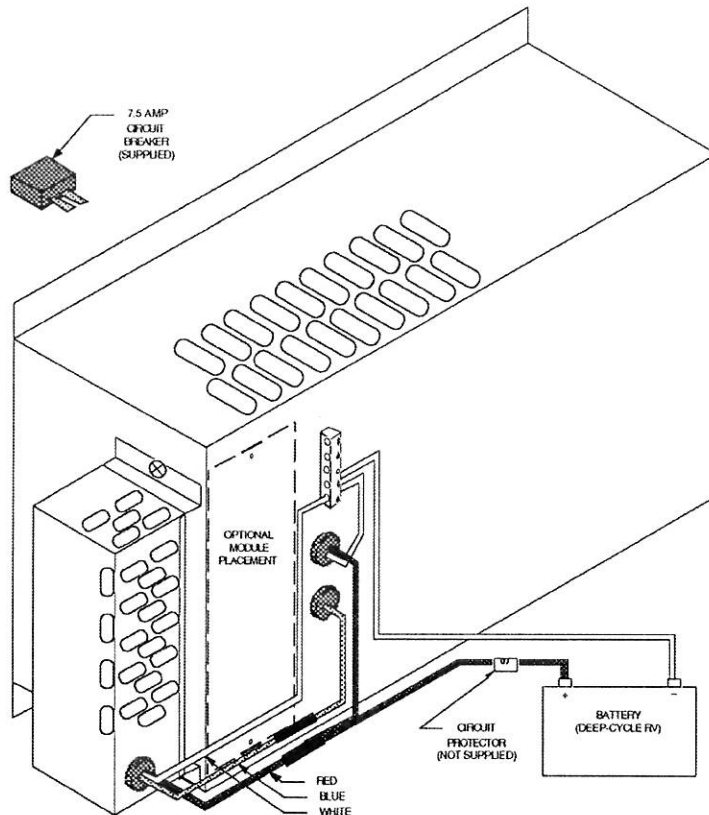


Installation and Owner's Manual

CHGM05 Battery Charger Module

5 Amp Battery Charger for use with CP-12/16/24 Series 3 Power Pack Systems



Installation



During operation the Charger Module will get hot. A protected clearance of at least 1" must be maintained on all open sides. Make sure that no materials can block ventilation, such as clothing and paper products.

The Charger Module is designed to be mounted (as shown in diagram) either on the right-hand side or back of a CP-12/16/24 Series 3 Power Pack System. Installation is easier if performed prior to installation of the Power Pack into the RV. Holes are provided on the Power Pack and screws are provided with the charger module. Use only the screws and holes provided - **DO NOT DRILL HOLES IN POWER PACK CASE!** Orient the charger module vertically with the top of the unit upward (see label.)

A 7.5 amp circuit breaker is supplied with the Charger Module to replace the fuse for the dedicated charger circuit. Locate the correct fuse/lead combination on the Power Pack by removing the desired 7.5 amp fuse and checking for continuity between the left fuse terminal and the blue leads. The circuit breaker can then be inserted into the fuse location on the Power Pack.

Connect leads as shown in diagram, with the blue lead connected to a blue lead of the Power Pack, the red lead connected in parallel with the red lead from the Power Pack to the positive battery connector (through an over-current protector not supplied), and the white lead connected in parallel with a white lead from the Power Pack to the battery negative connector. The ground bar located on the back of the Power Pack can be used as a connection point for 12VDC negative (ground) circuits.

Operation

The CHGM05 Battery Charger Module continuously monitors the battery voltage and charges the battery when needed from the converter output. When the converter is operating the charger will automatically charge the battery to a set level of about 14 volts, then shut off. As the battery is used the charger monitors the voltage and turns back on when the voltage drops to 12.5 volts or below. The average charging current is 5 amps.

If the battery is deeply discharged the self-resetting circuit breaker installed in the fuse panel may "trip", emitting a quiet "ping". Continuous tripping for a short period of time (less than 1 hour) is normal - this limits the charge current to acceptable levels. Continuous tripping for longer periods may be signs of excessive battery drain or a damaged battery.

Battery Maintenance Tips

Battery terminals and connectors, including vehicle frame connections, should be cleaned thoroughly, securely fastened, and coated with a silicone dielectric compound or petroleum jelly. All paint should be scraped away at the frame connecting point.

A dirty battery tends to self-discharge more rapidly. Clean top of battery with a solution of warm water and baking soda applied with a stiff bristled brush. Keep the solution from entering the cells of the battery. Rinse thoroughly after cleaning.

Check battery fluid levels periodically. Add distilled water if necessary. **DO NOT** add electrolytic solution (acid) in place of water. Store battery in a cool, dry location.

Check battery charge monthly and recharge as necessary. The lead sulfate on the battery plates will harden if the battery is left in a discharged state for prolonged periods, reducing battery capacity. Charge only in well ventilated area.

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