

**Warning always wear the proper safety equipment when dealing with batteries. Do not allow fire or sparks around charging batteries. Care should be taken not too short across the battery terminals. Do not charge frozen batteries discontinue charging if battery exceeded 130°F (55°C). Wash hands after using.**

## **Operational Instructions for the 6075S**

- 1) For best operation the first battery to be connected should be connected to the lead with the circuit breaker which would be the circuit on the far left, this battery will then drive the charger operation.
- 2) If 3 batteries or less are to be connected then the charger should be set for the lower setting (30A). For Best results after batteries have past 14.0V move rate switch to the 60A setting.
- 3) After the first battery is connected, connect the rest of the batteries to the remaining leads.
  - a) When connected there will be a short delay before turning on
  - b) If all checks are good then the control will connect the battery to the charger and the Green LED will start to flash.
  - c) If an error is detected then you may see one of the following errors
    - 1) Red Flashing LED (rapid) – reverse connection on battery
    - 2) Alternating Red and Green LED – Charger is not on and battery voltage is below 9V. Start charger with a different battery on position 1.
    - 3) LED flash 2-Red and 1-Green – possible relay issue. Allow charge voltage to climb for 10 minutes and try again. Still error: with no battery connected read voltage on clamps it should be zero, if not then replace control board for that circuit.
- 4) Each circuit is limited to about 20A of current if above this then the circuit will turn off. If a battery should drop out due to high current indicated by a Slow Flashing Red LED at the beginning of charge then one of the following steps can be taken. Move offending battery to the number 1 position, note in this position the battery is not being monitored by a control board. Move the battery to a standalone charger, this is a good option if the battery is sulfated (deeply discharged) while the other batteries are in fair to good shape. Turn the charger to the lower setting. Turn the charger off and leave all the batteries connected to the bus-bar and let them sit for several hours this will allow them to equalize.
- 5) Bus-bar will now monitor the charge and will conclude with one of the following
  - a) Normal termination of charge – Green LED will be on solid.
  - b) Battery started to get Hot or was not taking a charge – Red Flashing LED
  - c) Control can not terminate charge – Two RED flashes followed by Green Flash.

Fast Flashing Red	Reverse Battery
Green/Red	Not enough voltage to turn Relay on
2Red/1Green	Relay issue
Flashing Green (1s on/ 1s off)	charging
Flashing Green (2s on/ 1s off)	charging above 14.4V
Slow Red	Current above 20A
Slow Red	Hot battery
Solid Green	Float
Solid red	Battery in Recovery did not rise up

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In some cases the charger may go to Float while some batteries are still charging. This would be indicated by Charger Flashing Green while the bus-bar is also flashing green. In this case it will speed up charging if the charger is reset.