

## IMPORTANT NOTES - Please read this first

- The charge controller should not be exposed to direct sunlight or temperatures exceeding 170°F (77°C). It should be installed within 5 feet (1.5m) of the battery in a cool, dry and well ventilated area.
- DO NOT USE MORE THAN 105 Watt of solar power with this 7Amp CONTROLLER
- ALL connections should be in PARALLEL (Positive to Positive, Negative to Negative). Insure that connections are clean and solid.
- For all additions, use 16 or 14 AWG (gauge) wires. Always CONNECT the BATTERY FIRST, and DISCONNECT the BATTERY LAST.

## INSTALLATION PROCEDURE

### STEPS:

- CONNECT PANELS: Connect the solar panels to the master cable matching connectors blue to blue and yellow to yellow.
- CONTROLLER TO BATTERY CONNECTION: Connect the controller's "battery side" positive (red) wire to the positive side of the battery. Then, connect the negative (black) wire of the controller to the negative side of the battery.
- CONTROLLER TO PANEL CONNECTION: Connect master cable to the charge controller matching connectors red to yellow and black to blue.

### OPERATION

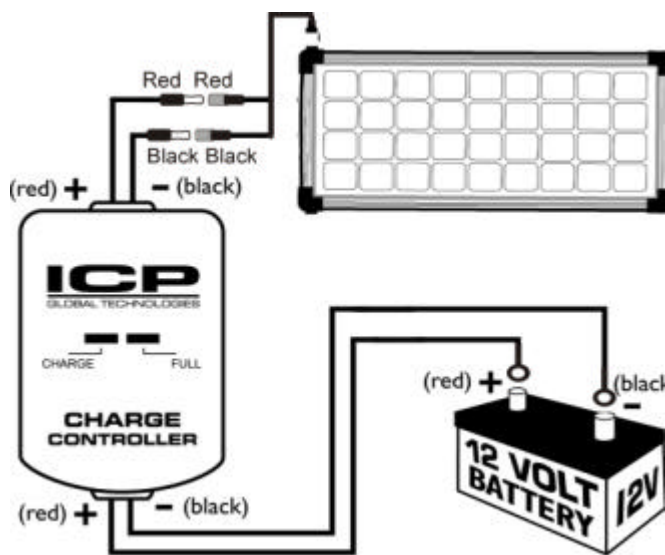
#### YELLOW LIGHT ON:

- Solar panel is charging the battery.
- When battery voltage is below 13Volts the charger cuts in and begins the charging operation.

#### GREEN LIGHT ON:

- Battery is fully charged.
- When battery voltage reaches 14.2Volts the Controller cuts out and will minimize voltage while monitoring battery. This will protect battery from damaging overcharge. During normal operations the yellow and green lights may blink alternately with varying intensities.

## DIAGRAM



## WARRANTY

90 Days from the date of purchase

## FREQUENTLY ASKED QUESTIONS

**Q: Can I connect more than one ICP Global solar panel to my 7A charge controller?**  
A: You can use the 7A charge controller with more than one solar panel connected in parallel to the controller's input terminals (positive to positive, negative to negative). However, you must make sure your solar system will not exceed the maximum current specification of the controller (7A @ 15 VDC). Example: you can connect up to (7) BatterySAVERPRO15W panels or (2) SolarPRO plug'n'play 50Watt panels. When using more than 105 Watts of solar power (7A), we then recommend using the 21A SolarPRO plug'n'play charge controller we have available. The 21A charge controller is designed to handle up to 315Watts (21A @ 15VDC).

**Q: When will the green FULL LED light up?**

A: The charge controller will light the green FULL LED when the battery voltage reaches 14.2 Volts DC (reached with panels still connected). At 14.2 Volts, the controller opens the circuit to prevent the current from the solar array from going to the battery and thus avoid overcharging. If the battery is only partially charged, the green LED might light up for only an instant as the battery voltage drops quickly below 14.2V. As the battery is more or more charged, the green FULL LED will be "ON" more and more (alternating between yellow CHARGE and green FULL). When the battery is fully charged, we should have a steady FULL LED.

### HEADQUARTERS

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