

# Solar Charge Controller (SCC)

## Instructions

**CAUTION:** Please read the following instructions before operating your Solar Charge Controller

Intended use: For charge regulation of 12 volt batteries when using Global Solar Energy P3 or Sunling 25 solar modules. This device is not intended as a voltage limiter. For devices other than intended use always consult device manufacturer before connecting to charge controller.

## PRODUCT DESCRIPTION AND SPECIFICATIONS



### SPECIFICATIONS:

Part Number	14598
Cut-in Voltage	13V
Cut-out Voltage	14.2V
Max. Solar Rating	105 W / 7amps
Weight	3.6 oz (0.1kg)
Size w/o cables	3 5/8 x 2 1/2 x 1 in (9.2075 x 6.35 x 2.54 cm)
Cable length	11 1/4 in (286 mm)

The SCC can be used with any P3 Portable Power Pack from Global Solar Energy and is designed specifically to connect to the P3 solar packs for continuous charging. Using the P3 solar pack and the Solar Charge Controller will help maintain the battery in a fully charged state. The charge light on the SCC indicates charging. The fully charged light indicates when charging is complete.

### CHARGING FEATURES:

- GREEN light indicates battery is full
- When battery reaches 14.2V, the SCC will cut out thereby ensuring no overcharging of the battery
- YELLOW light indicates solar panel is charging battery
- When battery is below 13V, the SCC will allow charging to start.



**NOTE:** It is normal for both lights to flicker in and out during normal operation.

### TIPS FOR USE:

- Solar Charge Controller should be placed within 5 feet of the battery and in a dry, well ventilated area
- This Solar Charge Controller can support up to 105 watts of power. It is not advisable to use with greater wattage
- All connections should be in parallel to ensure 12V- positive to positive, negative to negative

## SOLAR CHARGE CONTROLLER APPLICATIONS/HOW TO USE

**CAUTION:** Ensure that you completely understand this instruction manual before using the Solar Charge Controller.

### 1. For 12V Car Battery

Application: Use SCC with P3 solar pack to trickle charge car batteries.

Recommended use: Connect 8' extension accessory cable to solar panel, then to the SAE plug on the SCC marked SOLAR (Fig. 1 & Fig. 2). Connect SAE plug from SCC marked BATTERY to battery clamp accessory cable (Fig. 2). Attach red battery clamp to positive (+) car battery terminal and black battery clamp to negative (-) car battery terminal.



Fig. 1



Fig. 2

**WARNING:** Attaching battery clamps in reverse polarity could result in shocks, burns or permanent damage to the car battery or solar panel.

## TROUBLESHOOTING

Always test outdoors under optimal sunlight conditions.

- Inspect the connections between P3 Folding Solar Power Panel and the SCC.
- Inspect all plugs, outlets, clamps, connectors and cables to ensure they are not damaged or cut.
- If the connections are all secure, use a volt meter or 12V test light to check voltage between the positive and negative electrodes. This check should be done using the 12V vehicle power plug. Open voltage can range from 16V to 24V.
- If battery voltage is 14.2 or higher, the GREEN light should be on. If battery voltage is between 13 and 14.2, the YELLOW light should be on. If battery voltage is 13 or lower, the YELLOW light should be on.
- For vehicle battery charging, check to make sure that the battery is in good condition. Over time battery performance decreases the battery may need to be replaced.

**NOTE:** Some vehicle batteries require more power (current) than the solar power panel purchased. If problems persist you may require a larger solar power panel.

## FAQs

### How many panels can I connect to my 7 AMP SCC?

You can connect up to 105 Watts of solar power to the SCC. Panels should be connected in parallel – positive to positive, negative to negative.

### When will the Charging indication light (green) light up?

The charging indication green light will light up when the battery voltage reaches 14.2 Volts and the SCC will prevent the solar panels from overcharging the battery. It is normal for the SCC charging light to flicker on and off as the battery voltage cuts in and out.

### Where do I find the accessory cables described in the "How to Use" section?

You can purchase a five piece Accessory Cable Kit from any Global Solar products dealer. The kit includes a 12V vehicle power plug, 12V vehicle power receptacle, battery clamps, 4" barrel connector and 8' extension cable.

## 1-YEAR LIMITED WARRANTY

This Solar Charge Controller product carries a **one (1) year** limited warranty against defects in workmanship and materials affecting performance. Global Solar agrees to replace the defective product free of charge, within the stated warranty period, when returned by the original purchaser with **proof of purchase**. This product is not guaranteed against wear or breakage due to misuse and/or abuse. In addition, any units that show signs of creasing or folding on the active photovoltaic areas are not covered under this warranty.

**NOTE:** Since the conditions or methods of operation, use and maintenance of this Solar Charge Controller are beyond its control, the Manufacturer does not assume responsibility and expressly disclaims liability for loss, damage or expense arising out of or in any way connected with such operation, use or maintenance.

**WARNING** – Solar Power Panel generates electricity when exposed to light, even when not connected in a circuit. Shocks and burns can result from contact with module output wiring, misuse or improper connections. Contact battery manufacturer for questions on battery specifications before charging.