



# Folding Solar Power Panel

## Instructions

**CAUTION:** Please read the following instructions before operating your SUNLINQ™ Folding Solar Power Panel

SUNLINQ™ solar panels convert sunlight directly into 12 V electricity—ideal for recharging consumer electronics and maintaining vehicle batteries.

### PRODUCT DESCRIPTION AND SPECIFICATIONS



SPECIFICATIONS:		
Part Number:	22105	22110
Wattage:	6.5 W	12 W
Output:	12 V	12 V
Power:	433 mA MAX.	800 mA MAX.
Weight:	7 oz (0.20 kg)	13 oz (0.36 kg)
Open Size:	29 1/2 x 9 x 1/32 in (75 x 23 x 0.08 cm)	29 1/4 x 16 x 1/32 in (75 x 40.6 x 0.08 cm)
Closed size:	5 x 9 x 1/4 in (13 x 23 x 1.3 cm)	5 x 9 x 1/4 in (13 x 23 x 1.9 cm)

The overall performance of the Folding Solar Power Panel is dependent on a variety of conditions including season, orientation with direct sunlight, cloudy conditions, temperature, and shadowing. As a result, providing 'typical' performance parameters is dependent of the placement of the Folding Solar Power.

NOTE: When in use, the Folding Solar Power Panel will adjust its voltage and charge the electronic device at its intended rate. Measuring current and voltage while charging may not give an accurate reading of the solar power panel's performance. This solar power panel will not work with indoor lighting.

CAUTION: When recharging, some consumer products may not be allowed to be in direct sunlight. Consult the instruction manual of your product for further details.

### PART LIST (see Fig. 1):

- SUNLINQ™ Folding Solar Power Panel (not shown)
- 12 V vehicle power plug
- 12 V vehicle power outlet
- Battery clamps
- 4 in. barrel connector
- 8 ft. extension cable

Fig. 1

### IMPORTANT SYSTEM CARE INSTRUCTIONS:

- Although the Folding Solar Power Panel is flexible, ONLY FOLD the natural creases in the all-cloth portions of the panel.
- DO NOT FOLD with the solar cells facing outward.
- DO NOT FOLD or crease the solar charger on sharp edges or objects.



- DO NOT CRUMPLE OR IMPROPERLY BEND PANELS.

- DO NOT excessively flex or bend the panel as this could cause the plastic layers to crease or bubble.
- DO NOT machine wash, machine dry, or dry clean the panel.
- ALWAYS charge vehicle lead-acid batteries in a well-ventilated area.
- DO NOT attempt to charge non-rechargeable batteries.
- DO NOT reverse the polarity of the connections.
- Contact battery manufacturer for questions on the battery specifications.
- The Folding Solar Power Panel is not designed for continuous outdoor use.

### FOLDING SOLAR POWER PANEL APPLICATIONS/HOW TO USE

CAUTION: Ensure that you completely understand this instruction manual before using your SUNLINQ™ Folding Solar Power Panel.

#### 1. Consumer Electronics

##### Handheld Devices & Rechargeable Batteries

Application: Charges/runs most handheld electronic devices such as MP3 players, cellphones, digital cameras, Personal Digital Assistants; and is also compatible for running most AA/AAA Ni-Cd and Ni-M-H battery chargers.

How to use: Connect the 12 V vehicle power outlet receptacle to the Folding Solar Power Panel. Insert the adaptor (male) included with the handheld electronic device or battery charger into the 12 V vehicle power outlet. Place the panel in direct sunlight. Consult appropriate "Product Application Chart" for charging times.

##### 12 V Accessories

Application: Charges/runs most 12 V accessories.

How to use: Connect the 12 V vehicle power plug to the Folding Solar Power Panel. Insert the 12 V vehicle power plug directly into the socket of the 12 V accessory. Consult appropriate "Product Application Chart" for charging times.

#### 2. Vehicle Batteries

Application: Trickle charges and maintains car/RV/marine batteries.

How to use: Connect the 18" battery clamps to the Folding Solar Power Panel. Directly connect the 18" battery clamps (included with the Folding Solar Power Panel) to the vehicle battery.

OR

Connect the 12 V vehicle power plug to the Folding Solar Power Panel. Insert the 12 V vehicle power plug directly into your car's cigarette lighter outlet. Place the solar charger on the car's dashboard so that it receives direct sunlight.

NOTE: The Folding Solar Power Panel is not designed for continuous outdoor use. Disconnect and store the solar charger in a cool, dry place when not in use.

	For 22105 (6.5 W)	For 22110 (12 W)
Application	Run/Charge Time	Run/Charge Time
4 "AA" batteries	Charge 4–6 hrs.	Charge 1–3 hrs.
Digital camera	Charge 2–4 hrs.	Charge 1–3 hrs.
PDA	Charge 2–4 hrs.	Charge 1–3 hrs.
MP3 player	Charge 2–4 hrs.	Charge 1–3 hrs.
Portable video game console	Run/charge 2–4 hrs.	Run/charge 1–3 hrs.
Digital camcorder	Charge 2–5 hrs.	Charge 1–3 hrs.
RV/car/marine battery	Trickle charge/maintain	Trickle charge/maintain

NOTE: Charge times are estimates only, and depend on several factors including device, weather and season.

### TROUBLESHOOTING

- Inspect the connections between SUNLINQ™ Folding Solar Power Panel and the device you are attempting to charge.
- 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 12 V test light to check voltage between the positive and negative electrodes. This check should be done using the 12 V vehicle power plug.
- For vehicle and AA/AAA battery charging, check to make sure that the battery is in good condition. Over time battery performance decreases. If the battery performance is weakened, the battery may need to be replaced.
- Note: Some portable electronics such as computers require more power (current) than the solar power panel creates. If problems persist you may require a larger solar power panel.

### FAQs

#### How do I know that my SUNLINQ™ Folding Solar Power Panel is working?

Check the charge indicator light or bar on the handheld electronics or accessory. For battery charging, the product can be tested with a volt meter.

#### How do I know what size to use?

Consult the Product Application chart above.

#### Will this product drain my battery at night?

No. The SUNLINQ™ Folding Solar Power Panel has a built-in reversing diode and charge regulator that prevents the solar array from discharging your battery at night.

#### What happens if the solar power panel gets wet?

The SUNLINQ™ Folding Solar Power Panel is made from water-resistant material. Wipe the product with a clean, dry cloth and allow the product to dry before folding for storage. DO NOT keep the product in or underwater.

#### Can I leave the solar power panel outside for continual use?

SUNLINQ™ Folding Solar Power Panels were not designed for continuous outdoor usage. Once your application is finished charging (see charge times from chart), wipe the product with a clean, dry cloth and allow the product to dry before folding for storage.

#### Should the solar power panel be disconnected from the car battery when starting the engine?

No, the solar power panel can remain connected and will not effect operation of the vehicle or any of the vehicle's electronic components

### 1-YEAR LIMITED WARRANTY

This SUNLINQ™ 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.