# CAUTION: Please read the following instructions before operating your portable solar charger

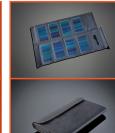
#### PRODUCT DESCRIPTION AND SPECIFICATIONS

SUNLINQ portable solar chargers convert sunlight directly into 12 V electricity - ideal for recharging consumer electronics and maintaining vehicle batteries.









PRODUCT SPECIFICATIONS		
Part Number	22105*	22110*
Module	SUNLINQ.	SUNLING. 4
Wattage	6.5 W	12 W
Dimensions Folded	9" x 5" x 1/2"	9" x 5" x 3/4"
Dimensions Unfolded	29 1/2" x 9" x 1/32"	29 1/4" x 16" x 1/32"
Weight	7 ounces	13 ounces
Maximum Output	12V @ 433mA	12V @ 800mA

\* SAE to FCLA (22700-2RC) accessory included

The overall performance of the solar charger 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 on the placement of the solar charger.

NOTE: The product specification above lists the solar charger's maximum power rating and may not be the actual power generated by the solar charger when connected to a device or battery.

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.

#### **TROUBLESHOOTING**

- Inspect the connections between the portable solar charger 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
- For vehicle and AA/AA 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 charger creates. If problems persist you may require a larger solar charger persist you may require a larger solar charger.

#### **IMPORTANT SYSTEM CARE INSTRUCTIONS**

- Although the solar charger is flexible, ONLY FOLD the natural creases in the all-cloth portions of the charger
- 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 CHARGER.
- DO NOT excessively flex or bend the solar charger as this could cause the plastic layers to crease or bubble.
- DO NOT machine wash, machine dry, or dry clean the solar charger.
- DO NOT attempt to charge non-rechargeable batteries.
- The solar charger is designed for portable outdoor use.
  Fold and store when not in use.
- ALWAYS charge vehicle lead-acid batteries in a wellventilated area.
- DO NOT reverse the polarity of the connections.
- Contact battery manufacturer for questions on the battery specifications.
- DO NOT use the product is a salt water/marine environment.





## **APPLICATIONS / HOW TO USE**

CAUTION: Ensure that you completely understand this instruction manual before using your portable solar charger.

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 portable solar charger. Insert the adaptor (male) included with the handheld electronic device or battery charger into the 12 V vehicle power outlet. Place the charger in direct sunlight. Consult "Sunling Solar Charging Chart" for charging times (on back).

#### **HOW TO CONNECT**

- SUNLING portable solar charger
- SAE to FCLA (22700-2RC) accessory included



Note: The SAE plug connects directly to the solar charger and the FCLA can be connected to various consumer electronic devices.

#### **FAQs**

How do I know that my portable solar charger is working? Check the charge indicator light or bar on the handheld electronics or accessory.

How do I know what size to use?

Consult the Product Application chart.

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

No. The solar charger will not discharge your device battery if left plugged in at night! The solar charger has a built in reverse flow diode to prevent discharge from the battery.

#### What happens if the solar charger gets wet?

The solar charger is made from water-resistant material. Wipe the product with a clean, dry cloth, and allow the product to dry completely before folding for storage. DO NOT keep the product in or under water. DO NOT use the product is a salt water/marine environment.

Can I leave the solar charger outside for continual use?

The solar charger was not designed for continued outdoor usage. Once your device is finished charging (see charge times from chart), wipe the product with a clean, dry cloth, and allow the product to dry completely before folding for storage.

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

No, the solar charger 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. P3Solar 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. Use in salt water environments will VOID warranty.

NOTE: Since the conditions or methods of operation, use and maintenance of solar chargers 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



Portable Solar Chargers generate electricity when exposed to light, even when not connected to a device or battery. 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.



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# **SUNLING SOLAR CHARGING CHART**













Charge times are approximate and will vary depending on specifc device and sun exposure.

- \* Charging standards vary from device to device. Please consult your device manufacturer for specific charging guidelines and requirements. Please be sure your device powers through a USB connection.
- \*\* Most laptop computers require more power to charge than a portable solar charger can produce on a consistent basis. We recommend the purchase of an auxillary batter pack to store the solar charger's energy and deliver the specific power required for your device.

# SOLAR CHARGER ACCESSORIES (SOLD SEPARATELY)



#### 7 AMP SOLAR CHARGE CONTROLLER

Protects your 12V lead acid batteries from overcharge. It is to be used with any P3Solar charger over 12W and can handle up to 100 Watts of power. With the attached SAE trailer plug the 7 Amp Solar Charge Controller can connect directly to the solar charger and the remaining SAE trailer plug can connect to any other accessory cable.



FCLA 2.5mm BARREL JACK

A 6 inch, 18 AWG zip cord cable. It has a 2.5mmlD barrel jack on one end and a 12V FCLA receptacle on the other. This cable can be used to connect to various electronic devices.



SAE to RING TERMINALS

An 18 inch, 18 AWG zip cord cable. It has a standard SAE two prong connector on one end and a set of standard ring terminals on the other end. The SAE plug connects directly to the 7 amp charge controller and the ring terminals connect to a 12V car bottlery.



SAE to 2.1mm BARREL PLUG

A 4 inch, 18 AWG zip cord cable. It has a standard SAE two prong connector on one end and a 2.1 mmlD x5.5mmOD barrel plug on the other end. The SAE plug connects directly to the solar charger and the barrel plug connects to various electronic devices and battery packs including the Tekkeon myPower All portable battleries (models MP3450 and MP3700).



SAE to FCLA

An 18 inch, 18 AWG zip cord cable. It has a standard SAE two prong connector on one end a 12V FCLA receptacle on the other. The SAE plug connects directly to the solar charger and the FCLA can be connected to various electronic devices.



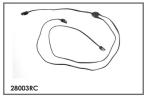
2.1mm BARREL PLUG to 2.5mm JACK

A 4 inch, 18 AWG zip cord cable. It has a 2.5mmlD x 5.5mm0D barrel jack on one end and a 2.1mmlD x 5.5mm0D barrel plug on the other end. This cable can be used to connect to various electronic devices.



SAE to 2.5mm BARREL PLUG

A 4 inch, 18 AWG zip cord cable. It has a standard SAE two prong connector on one end and a 2.5mmlD x 5.5mmOD barrel plug on the other end. The SAE plug connects directly to the solar charger and the barrel plug connects to various electronic devices and battery packs.



Y-CABLE

The 18 AWG SAE Y-Cable has two 3' ends that branch from a 1' SAE cable. Use the SAE Y-Cable to connect two solar chargers together in parallel if you need more power. This effectively doubles the power but the voltage remains the same.



SAE to MCLA

An 18 inch 18 AWG zip cord cable. It has a standard SAE two prong connector on one end a 12V MCLA plug on the other. The SAE plug connects directly to the solar charger and the FCLA can be connected to various electronic devices.



SAE 8 ff EXTENSION

An 8 foot, 18 AWG, jacketed cable with a two-prong SAE trailer plug on each end. This cable connects to any of the accessories with a SAE connection and plugs directly into the solar charger.