



## 22 Watt Solar Charging Kit For 12 Volt Batteries

### User Manual



**⚠ WARNING:** Read and understand all instructions, warnings, and cautions before using this product. Failure to follow the instructions, warnings, and cautions may result in serious personal injury and/or property damage.

**Item # 42022**

**SAVE THESE INSTRUCTIONS**

## Important Safety Information

Thank you for choosing a Nature Power Product.

Save the receipt and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This product is designed for certain applications only. the distributor cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and/or used for any application other than that for which it was designed. If you have any question relative to a particular application, Do not use the product until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical question please call 1800-588-0590

### **WARNING**

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will be a safer experience and do the job better at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.



#### **WARNING**

This product can expose you to chemicals, including Di (2-ethylhexyl) phthalate (DEHP) which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)



#### **ADVERTENCIA**

Este producto puede exponerlo a productos químicos, incluidos Di (2-etilhexil) ftalato (DEHP) que el estado de California sabe que causa cáncer, defectos de nacimiento u otros daños reproductivos. Para obtener más información, vaya a [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

## Intended Use

This solar panel is designed to prevent rechargeable 12 Volt batteries from discharging and damaging themselves when left in storage for long periods of time. Some common uses of 12 Volt batteries are in cars and trucks, ATVs, boats, water pumps, and deer feeders.

## Part List

No.	Description	Qty
1	Solar Panel	1
2	SAE to Battery Clamps Cable	1
3	Stand Poles	2
4	8Amp Charge Controller	1

## Technical Specifications

Property	Specification
Maximum Power	Up to 22 Watts
Current at Pmax	1300mA
Voltage at Pmax	18V
Solar Panel Type	Amorphous
Measurements	30 x12.9 x 0.8 in
Weight	5.6 lbs

## Before Each Use

- Check for damaged parts before each use. Replace damaged or worn parts immediately. Never use the solar panel with a damaged part.
- Check that the panel, battery clamps and other parts are clean to ensure proper function. If necessary, wipe the components with a damp cloth – DO NOT use soap or solvents when cleaning and DO NOT pour chemicals on the panel.

## Charge Controller

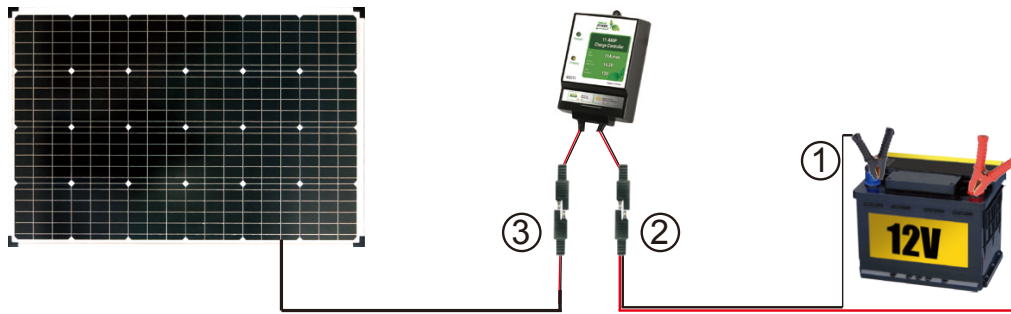
- Observe manufacturer's safety procedures when working around batteries and other electrical equipment.
- Always connect charge controller to the battery first and remove last.
- This product is designed to be used on 12 volt battery.
- This product is designed to receive charges from 12 Volt Solar Panels.
- This product should be placed in a well ventilated dry area, free from flammable gases, weather, and moisture. Charge controller is NOT weatherproof.

Property	Specification
Battery Voltage System	12V Only
Cut-in Voltage	13V
Cut-out Voltage	14.2V

- LED light indicates a full battery charge "green" at 14.2 Volts, at this time the charge controller will cut out to prevent overcharging.
- LED light indicates battery charging "yellow" when battery reaches below 13 Volts, charge controller will cut in and allow solar panel to be charging.



## Operating Instructions



### Electrical Installation

Please confirm that you have all parts to your system before starting installation.

**\* Below image just showing how to connect the solar panel to charge your battery. Reverse below steps to uninstall.**

**Step1** Connect the battery with SAE-battery clamp cable, Always connecting the positive to positive, negative to negative.

**Step2** Connect the SAE connector to charge controller (battery side of charge controller)

**Step3** Connect the solar panel to charge controller (solar panel side of charge controller)

## Maintenance

The solar panel requires no maintenance except occasional cleaning and replacement of damaged or worn parts. Use only identical replacement components. Components that may be suitable for one device may create a risk of injury when used with another device.

## Limited Warranty

Nature Power warrants our products to the original purchaser that this product is free from defects in materials and workmanship for the period of 1 year from date of purchase, 5 year warranted to generate up to 80% of rated power from date of purchase. In the case of product defect, contact Nature Power customer service to receive troubleshooting. If defective part or unit should be returned, a Return Authorization Number must be issued by Nature Power and the defective part or unit should be returned to the authorized location at the purchasers' expense. A dated proof of purchase is required to receive warranty service. Once received at authorized location and defect proves to be the result of defective material and workmanship, the defective part or unit will be replaced at warrantors' option and returned to the original purchaser at warrantors' expense. No refunds will be granted by the warrantor, in the event of buyer's remorse please contact your point of purchase within and in adherence to their return policy. Refunds are granted at the retailers' discretions.



Please contact Nature Power Products to acquire more information:

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