



30 WATT FOLDING SOLAR KIT

OWNER'S MANUAL



WARNING:

Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item# 35949

Thank you very much for choosing an Ironton product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

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

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

For technical questions please call **1-800-222-5381**.

INTENDED USE

The Ironton 30 Watt Folding Solar Kit is intended for charging rechargeable 12V batteries such as those found in RV, marine and utility vehicles.

TECHNICAL SPECIFICATIONS

Item	Description
Maximum Wattage	30 Watts
Maximum Amperage	1.76 Amps
Maximum Voltage	17.5 Volts
Open Circuit Voltage	21.00 Volts
Short Circuit Current	1.48 Amps
Dimensions	9.5in.W x 1.5in.D x 16.5in.H closed 19in.W x 0.75in.D x 16.5in.open

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.



CAUTION: Do not allow persons to operate or assemble this 30 Watt Folding Solar Kit until they have read this manual and have developed a thorough understanding of how it works.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY CONSIDERATIONS

30 WATT FOLDING SOLAR KIT USE AND CARE

Do not modify the 30 Watt Folding Solar Kit in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment. There are specific applications for which the **30 Watt Folding Solar Kit** was designed.

Always check of damaged or worn out parts before using the 30 Watt Folding Solar Kit. Broken parts will affect the **30 Watt Folding Solar Kit's** operation. Replace or repair damaged or worn parts immediately.

Store idle 30 Watt Folding Solar Kit. When **30 Watt Folding Solar Kit** is not in use, store it in a secure place out of the reach of children. Inspect it for good working condition prior to storage and before re-use.

ASSEMBLY

1. Open the solar panel to its extended position by unlocking the latches and setting the support stand.
2. Cover the solar panel with a dark cloth.
3. Connect the charge controller to the solar panel using the quick connect plugs.
4. Connect the supplied battery clamps to the charge controller using the quick connect plugs, and the battery clamps to a 12V rechargeable battery, red clamp to positive battery terminal and black clamp to the negative battery terminal. Do not cross the polarity.
5. Remove dark cloth from solar panel.

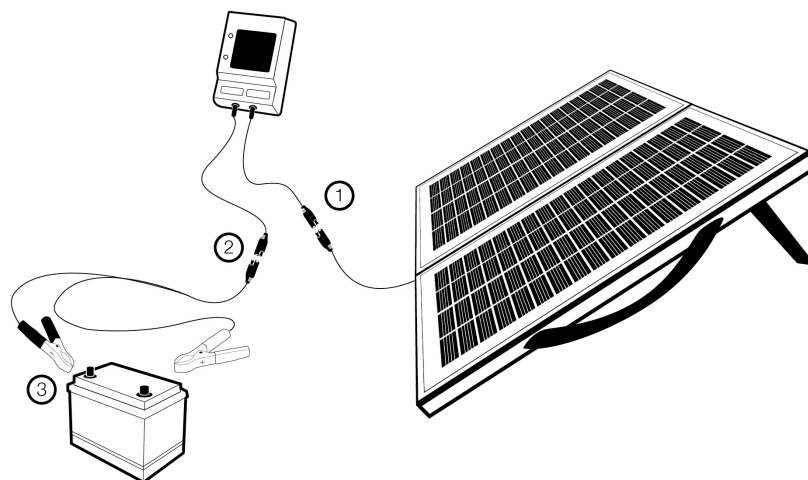
OPERATION

The solar panel will begin to produce an electrical current once it is exposed to sufficient sunlight.

MAINTENANCE

- **Maintain your 30 Watt Folding Solar Kit.** It is recommended that the general condition of any **30 Watt Folding Solar Kit** be examined before it is used. Keep your **30 Watt Folding Solar Kit** in good repair by adopting a program of conscientious repair and maintenance. Have necessary repairs made by qualified service personnel.
- A visual inspection is recommended twice a year to ensure clean and secure connections.

DIAGRAM & PARTS LIST



Part#	Description	Qty.
1	Solar panel	1
2	Charge controller	1
3	Battery clamps	1

For replacement parts and technical questions, please call **1-800-222-5381**.

WARRANTY

1-year limited warranty



Distributed by
Northern Tool + Equipment Co., Inc.
Burnsville, Minnesota 55306
NorthernTool.com
Assembled in China