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› Renogy 200 Watt 12 Volt Portable Solar Panel Instruction Manual

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Model: 200 Watt 12 Volt Portable Solar Panel

Brand: Renogy

INTRODUCTION

The Renogy 200 Watt 12 Volt Portable Solar Panel with Waterproof 20A Charger Controller is a complete plug-and-play solar kit designed for outdoor and off-grid use. It features high-efficiency monocrystalline solar cells and a durable, foldable design for easy portability and setup. This kit is compatible with multiple 12V battery types, ensuring efficient and safe charging for your power station, RV, or camping needs.



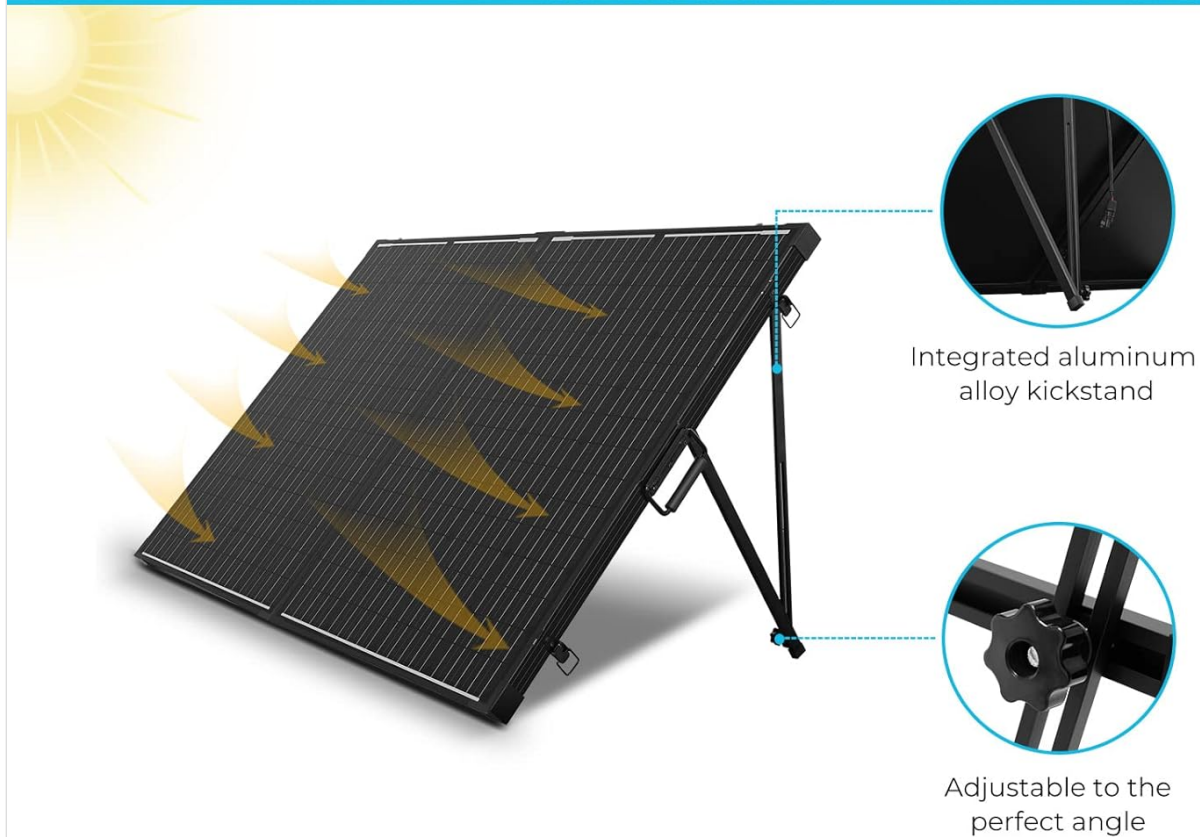
Figure 1: Renogy 200 Watt Portable Solar Panel Kit including panels, charge controller, and cables.

SETUP GUIDE

Unfolding and Positioning

Carefully unfold the solar panel suitcase. The integrated aluminum alloy kickstands can be adjusted to achieve the perfect angle for optimal sun exposure. Ensure the panels are positioned in direct sunlight, free from any shadows, to maximize energy harvest.

ADJUSTABLE KICKSTANDS GET BEST SUNSHINE



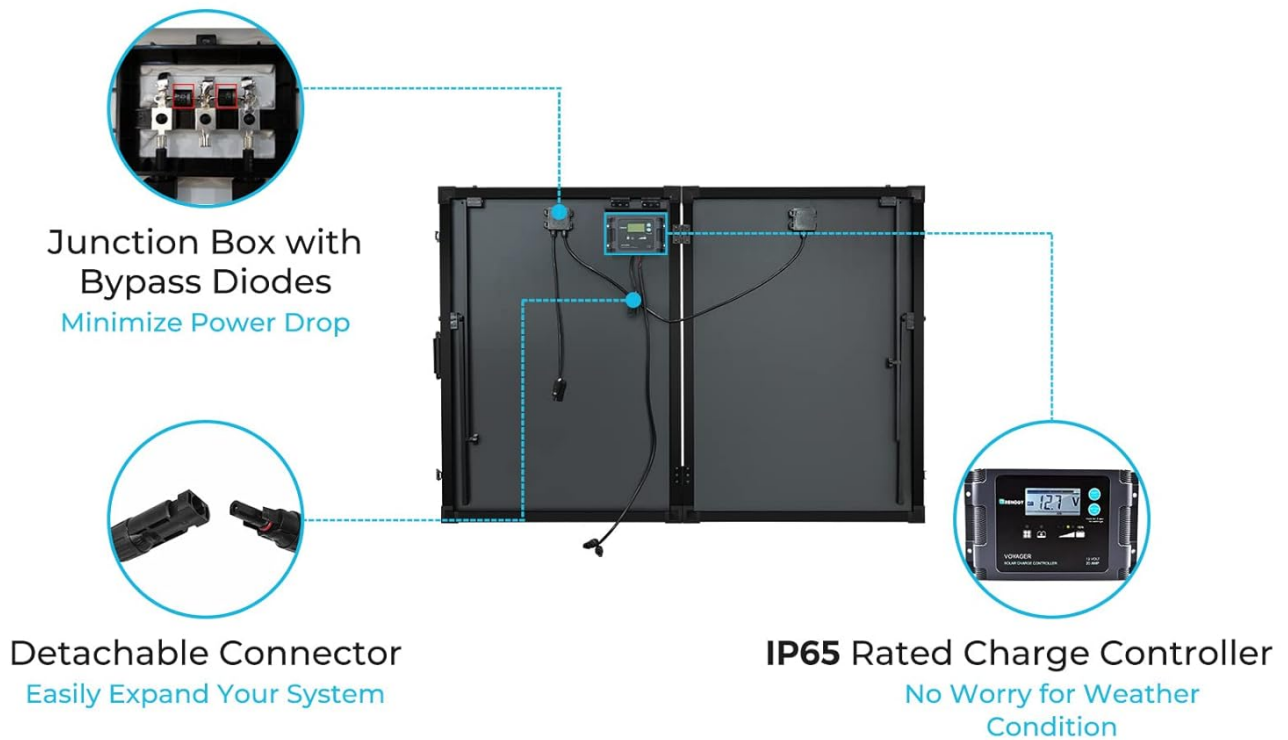
Integrated aluminum alloy material ensures good quality and long service life.

Figure 2: The solar panel features adjustable kickstands for optimal sun alignment.

Electrical Connections

The kit includes a waterproof 20A Voyager charge controller and alligator clips for direct connection to your 12V battery. First, connect the alligator clips to your battery terminals (red to positive, black to negative). Then, connect the MC4 connectors from the solar panel to the charge controller. The advanced smart PWM technology charge controller will manage the charging process efficiently and safely.

PREMIUM QUALITY DURABLE DESIGN



Guaranteed performance, no worry for weather conditions.

Figure 3: Close-up of the junction box with bypass diodes and the IP65 rated charge controller.

COMPATIBLE WITH MUTIPLE BATTERY TYPE



This solar kit is compatible with **Gel, AGM, Flooded, and Lithium** batteries.

Figure 4: The solar kit is compatible with Gel, AGM, Flooded, and Lithium batteries.

Note: No official product videos from the seller were available for embedding based on the provided criteria.

OPERATING INSTRUCTIONS

Charge Controller Overview

The integrated 20A Voyager charge controller features an LCD display that shows battery voltage, charging current, and battery temperature. It supports 12V/24V systems and offers multiple charging stages (Soft-Start, Bulk, Absorption, Equalization, Float) to optimize battery health and longevity.

Battery Compatibility

The charge controller is designed to work with various 12V battery types, including Gel, AGM, Flooded, and Lithium batteries. Ensure the correct battery type is selected on the controller for proper charging.

Optimizing Performance

For best performance, periodically adjust the solar panel's angle to directly face the sun throughout the day. This maximizes the solar energy captured. The foldable design allows for easy relocation of the panels to maintain optimal solar efficiency, especially when parking in shaded areas.

MAINTENANCE

To ensure the longevity and optimal performance of your Renogy solar panel, regular maintenance is recommended:

- **Cleaning:** Periodically clean the surface of the solar panels with a soft cloth and mild, non-abrasive cleaner to remove dust, dirt, and debris that may accumulate and reduce efficiency.
- **Connection Check:** Regularly inspect all electrical connections, including the MC4 connectors and alligator clips, to ensure they are secure and free from corrosion. Loose connections can lead to power loss or system malfunctions.
- **Physical Inspection:** Check the panel frame, kickstands, and hinges for any signs of damage or wear. Ensure all components are intact and functioning correctly.
- **Storage:** When not in use, store the foldable solar panel in its premium rugged canvas protective case in a dry, cool place to protect it from environmental elements and physical damage.

TROUBLESHOOTING

Common Issues and Solutions

- **B01 Error on Controller:** This error typically indicates a disconnected wire between the charge controller and your battery, on either the negative or positive side. Check for loose connections at the controller, frayed wires at MC4 connectors, or issues with the battery clips. Ensure the battery is properly connected before the solar panel.
- **E15 Error Message (No Battery):** If you receive an E15 error, it means the charge controller does not detect a connected battery. Verify that your battery is properly connected to the controller before exposing the solar panel to sunlight.
- **Reduced Power Output with Long Cables:** Using excessively long extension cables can lead to voltage drop, reducing the charging efficiency. Consider using thicker gauge cables or minimizing cable length if you experience significantly lower than expected power output.
- **Wire Fraying at Connectors:** Over time, cables at MC4 connectors or alligator clips may fray due to lack of strain relief or frequent movement. Inspect these areas regularly and reinforce or replace damaged wires to maintain safe and efficient operation.
- **Loose Charge Controller Mounting:** Some users have reported the charge controller being partially mounted or having loose screws. Ensure all mounting screws are securely fastened to prevent the controller from becoming wobbly or detached.

PRODUCT SPECIFICATIONS

Brand	Renogy
Model Number	200 Watt 12 Volt Portable Solar Panel
Part Number	RNG-KIT-STCS200D-VOY20
UPC	810009712572

Material	Aluminum
Product Dimensions (Folded)	41.8"L x 20.9"W x 2.8"H
Item Weight	34.4 Pounds
Efficiency	22.5%
Connector Type	MC4
Included Components	200 Watt Mono Foldable Solar Suitcase, Output line adapter w/ Alligator Clips, 20A Voyager Charge Controller
AC Adapter Current	10.42 Amps
Maximum Voltage	24.3 Volts
Upper Temperature Rating	149 Degrees Fahrenheit
Maximum Power	200 Watts
Power Source	Battery Powered
Wattage	200 watts

WARRANTY AND SUPPORT

The Renogy 200 Watt Portable Solar Panel comes with a 3-year material and workmanship warranty for the panel itself, and a 2-year material and workmanship warranty for the controller.

For detailed information, additional support, or to download the official user manual, please refer to the PDF document provided by the manufacturer:

[Download User Manual \(PDF\)](#)