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Renogy RPP200EF-SE

Renogy 200W Portable Solar Panel User Manual

Model: RPP200EF-SE
Brand: Renogy

1. Introduction

The Renogy 200W Portable Solar Panel is a versatile and efficient power solution designed for various outdoor activities and off-grid applications. Its foldable and lightweight design ensures easy portability, while its robust construction provides durability in diverse environments. This manual provides essential information for setting up, operating, and maintaining your solar panel to ensure optimal performance and longevity.

2. Key Features

- **Portable and Easy to Install:** Super lightweight for outdoor activities like camping, fishing, and gardening. No complex installation required.
- **High Power Conversion Efficiency:** Utilizes Grade A solar battery cells and ETFE material for up to 23.5% efficiency, ensuring consistent power output.
- **Multiple Output Ports:** Equipped with 1x Industry-standard solar connector, 1x Type C (60W max), 1x USB A (18W max), and 1x USB A (15W max) for simultaneous charging of multiple devices.
- **Outdoor-Ready Design:** Features 4 mounting holes for easy attachment to car tops, RVs, or trees. Unique magnetic design with buckle or velcro folding for secure storage.
- **IP65 Waterproof Splash and Dust Resistance:** Protects against water splashes and dust. Note: Avoid prolonged submersion in water or heavy rain to extend lifespan.
- **Compact and Lightweight:** Weighs 17.6 lbs, folds to 25"x21.1"x2.2" and opens to 94.1"x21.1"x0.2", making it highly portable.

3. Setup Guide

Setting up your Renogy 200W Portable Solar Panel is straightforward. Follow these steps for quick deployment:

1. **Unfold the Panel:** Carefully unfold the solar panel completely. It expands to 94.1 inches in length.
2. **Position the Kickstands:** On the back of the panel, extend the four adjustable kickstands. These allow you to tilt the panel at optimal angles (60°, 50°, or 40°) to maximize sunlight exposure.
3. **Secure the Panel (Optional):** Use the integrated 4 mounting holes to tie down the panel to a car top, RV, or tree for added stability, especially in windy conditions. The magnetic design and velcro straps help keep the panel securely folded when not in use.
4. **Connect Devices:** Open the zippered compartment on the panel to access the output ports. Connect your devices or power station using the appropriate cables (solar connector, Type C, or USB A).

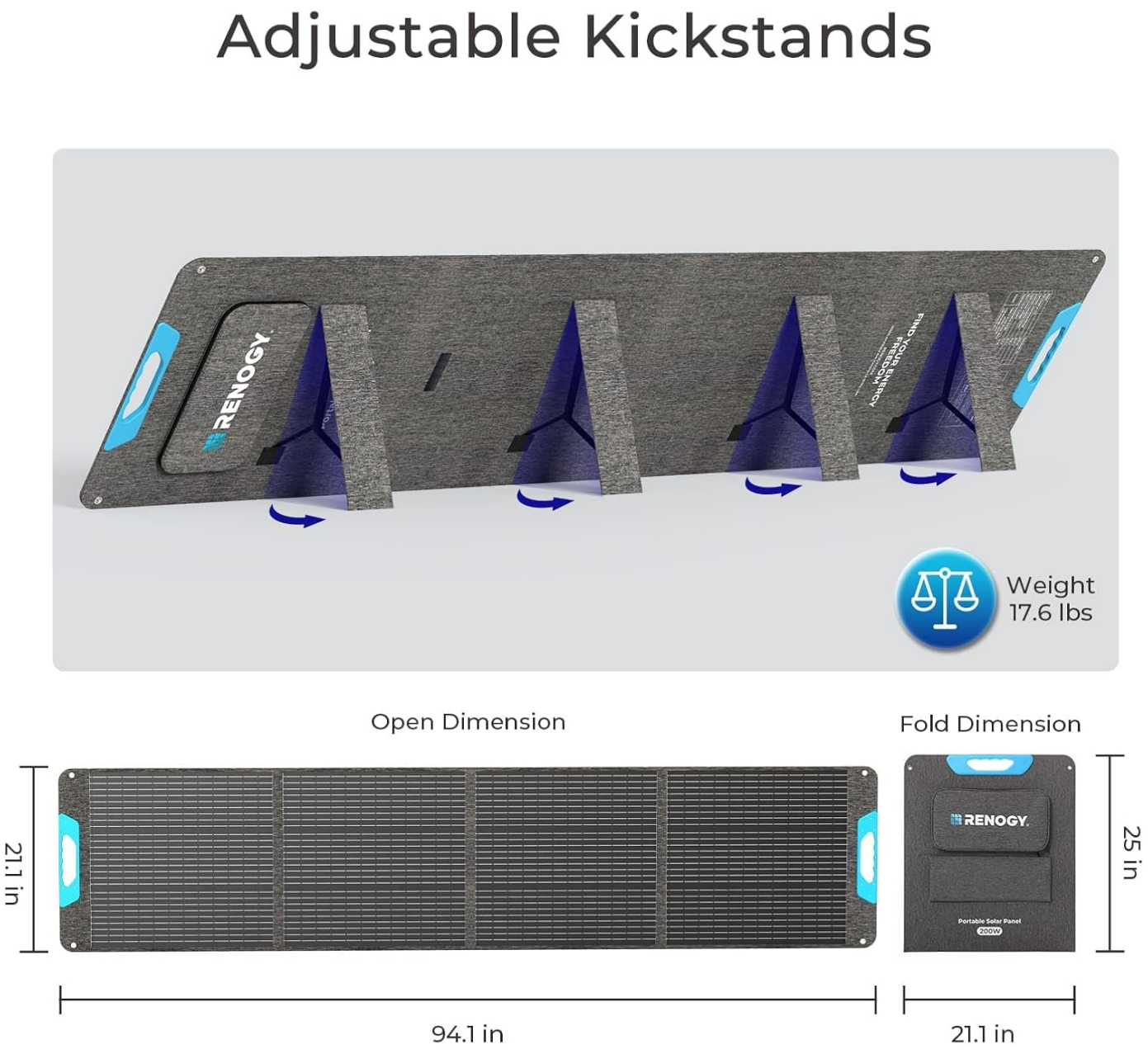


Image: The Renogy 200W Portable Solar Panel fully unfolded, showcasing its adjustable kickstands for optimal sun exposure.

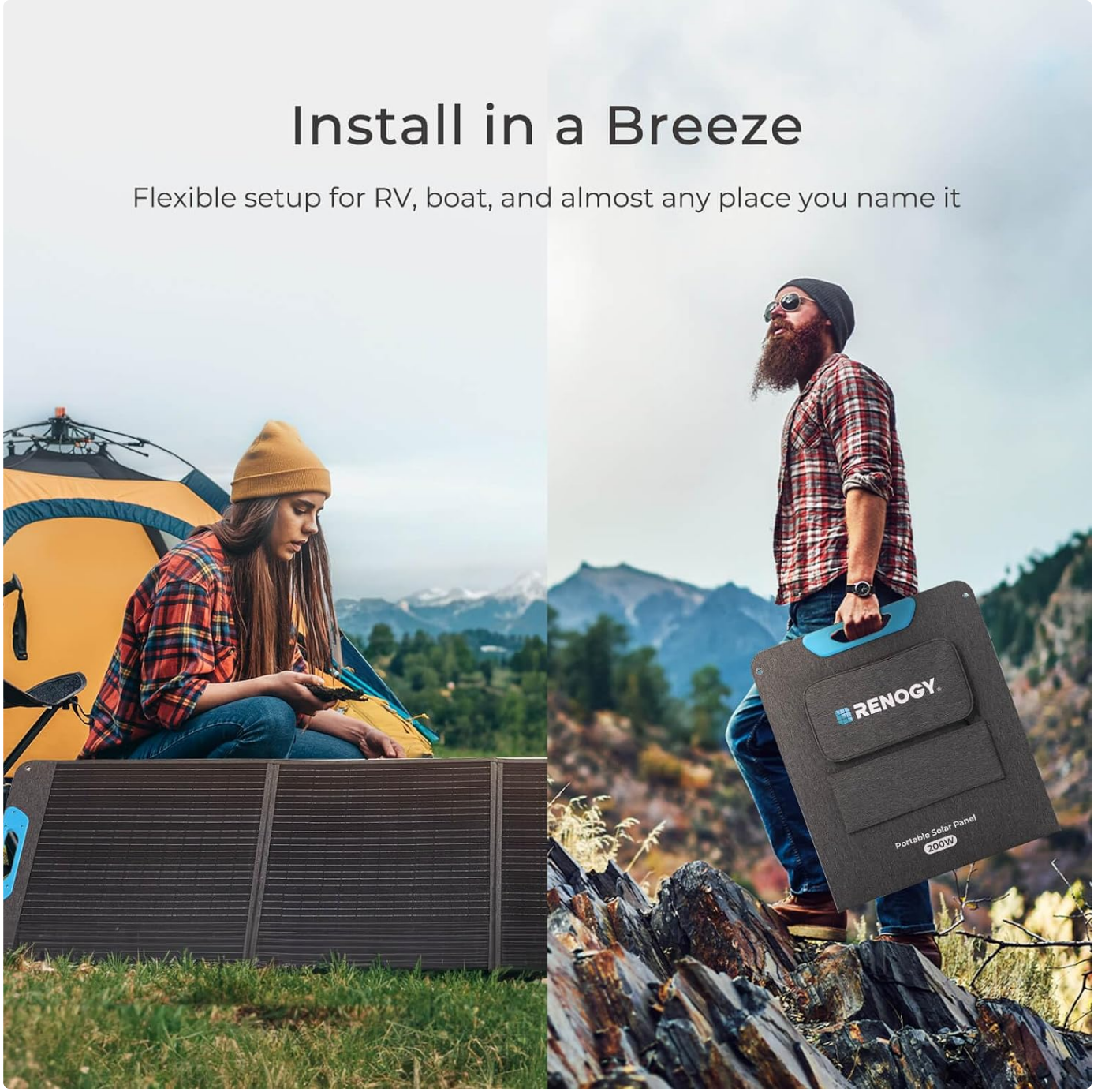


Image: The Renogy 200W Portable Solar Panel folded, highlighting its compact size and integrated handle for easy carrying.

Your browser does not support the video tag.

Video: A brief product overview demonstrating the Renogy 200W Portable Solar Panel's features and portability.

4. Operating Instructions

The Renogy 200W Portable Solar Panel is designed for efficient power generation. Here's how to operate it:

- **Sunlight Exposure:** Ensure the solar panel is placed in direct sunlight with no obstructions. Adjust the angle of the panel using the kickstands throughout the day to follow the sun's path for maximum efficiency (up to 23.5%).
- **Charging Devices:**
  - For direct device charging, use the USB-A (15W Max, 18W Max) or Type-C (60W Max) ports located in the zippered pouch.

- For charging power stations or larger battery systems, connect the industry-standard solar connector output to your compatible power station's input.

- **Monitoring Performance:** While the panel itself doesn't have a display, connected power stations or charge controllers will show the input wattage. Expect real-world output to vary based on sunlight intensity, temperature, and panel angle.
- **Connecting Multiple Panels:** The solar connector output allows for linking multiple Renogy E.FLEX panels in series or parallel to increase total wattage for larger power needs.



Image: Close-up of the Renogy 200W Portable Solar Panel's control box, showing the USB-A, Type-C, and solar connector output ports.

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Video: An unboxing and setup demonstration of the Renogy 200W Portable Solar Panel, including connection to a power station.

5. Maintenance

Proper maintenance ensures the longevity and efficiency of your Renogy 200W Portable Solar Panel:

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris that may reduce efficiency. Avoid abrasive materials or harsh chemicals.
- **Water Resistance:** The panel has an IP65 rating, protecting it from water splashes and dust. However, it is not designed for prolonged submersion or exposure to heavy, continuous rain. Always store the panel in a dry place when not in use or during adverse weather conditions.
- **Storage:** When not in use, fold the panel securely using its magnetic design and velcro straps. Store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the panel for any physical damage, loose connections, or wear and tear on the cables and kickstands. Address any issues promptly to prevent further damage.

6. Troubleshooting

If you encounter issues with your Renogy 200W Portable Solar Panel, consider the following:

- **Low Power Output:**
  - **Sunlight:** Ensure the panel is in direct, unobstructed sunlight. Adjust its angle to face the sun directly.
  - **Cleanliness:** Clean the panel surface from any dirt, dust, or debris that might be blocking sunlight.
  - **Temperature:** Extreme temperatures (very hot or very cold) can affect solar panel efficiency.
  - **Cables/Connections:** Check all cables and connections for proper seating and damage. Loose or damaged cables can significantly reduce power.
- **No Power Output:**
  - **Connections:** Verify all connections are secure, especially the solar connector to your power station/charge controller.
  - **Device Compatibility:** Ensure your device or power station is compatible with the panel's output specifications (voltage/wattage).
  - **Internal Damage:** If the panel has been subjected to physical impact or extreme conditions, internal damage might prevent power generation.
- **Kickstand Stability:** While designed for portability, the kickstands may appear less rigid on uneven surfaces. Place the panel on a flat, stable surface or use the mounting holes for secure placement.

7. Specifications

Attribute	Value
Brand	Renogy
Model Number	RPP200EF-SE
Maximum Power	200 Watts
Efficiency	23.5%

Material	Monocrystalline Silicon
Product Dimensions (Open)	94.1"L x 21.1"W x 0.2"H
Product Dimensions (Folded)	25"L x 21.1"W x 2.2"H
Item Weight	17.6 Pounds
Connector Type	IP68 solar connectors
Waterproof Rating	IP65 Splash and Dust Resistance
Included Components	Case

8. Warranty and Support

Renogy products typically come with a manufacturer's warranty. Please refer to the E-warranty card included in your product packaging or visit the official Renogy website for detailed warranty information and registration. For technical support, troubleshooting assistance, or any product-related inquiries, please contact Renogy customer service through their official channels.

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