

Renogy RSP400LSC

Renogy 400W Lightweight Portable Solar Suitcase

Model: RSP400LSC
Brand: Renogy

INTRODUCTION

The Renogy 400W Lightweight Portable Solar Suitcase is designed to provide efficient and reliable power for various off-grid applications. Its compact and foldable design ensures easy transport and quick setup, making it ideal for RVs, camping, and emergency backup power. This manual provides essential information for the safe and effective use of your solar suitcase.



Figure 1: The Renogy 400W Portable Solar Suitcase in its unfolded state, showcasing its compact design and integrated kickstands.

KEY FEATURES

- **Compact and Lightweight:** Weighing only 30.2 lbs, this 400W solar panel features a compact solar cell layout, making it highly portable.
- **Premium Materials:** Reinforced with fiberglass and featuring EL-tested Grade A+ solar cells for high power conversion efficiency and extended lifespan.
- **Fast Installation:** Robust foldable kickstands allow for quick setup, connecting seamlessly to most portable power stations via IP68 solar connectors.

- **Environmental Endurance:** IP67 protection and ETFE coating ensure durability against snow, rain, and light hail.

Portable Power Anywhere

Please ensure that the DC input voltage for the portable power station exceeds 48V.



Figure 2: Visual representation of the solar suitcase's key attributes, including its lightweight design, durable ETFE coating, high conversion efficiency, and sturdy kickstands.

SETUP INSTRUCTIONS

1. **Unpack the Solar Suitcase:** Carefully remove the solar suitcase from its protective case.
2. **Position the Panels:** Unfold the solar panels completely.
3. **Deploy Kickstands:** Extend the integrated kickstands to support the panels at an optimal angle towards the sun. Ensure the kickstands are stable on a flat surface.
4. **Connect to Power Station:** Use the IP68 solar connectors to link the solar suitcase to your compatible portable power station or charge controller. Ensure connections are secure.
5. **Verify Connection:** Confirm that your power station or charge controller indicates a charging input from the solar panels.

Robust Structure for Consistent Panel Output

Sturdy, rust-resistant kickstands allow maximum power generation.

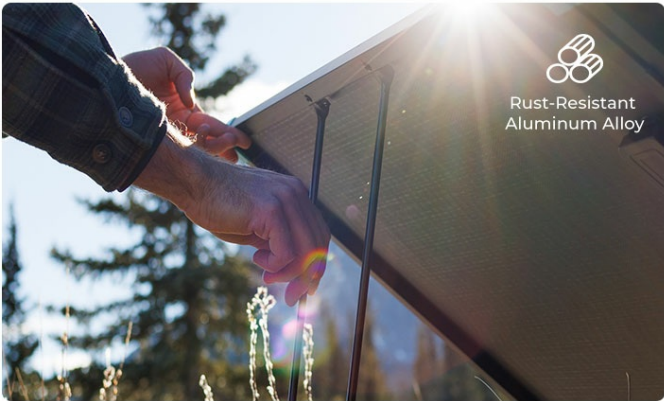


Figure 3: Detailed view of the plug-and-play IP68 solar connectors and the sturdy kickstands, illustrating the ease of assembly.

OPERATING INSTRUCTIONS

For optimal performance, ensure the solar panels are positioned to receive maximum direct sunlight throughout the day. Adjust the angle of the panels using the kickstands as the sun's position changes. The parallel wiring design helps maintain efficiency even with partial shading.

- **Sunlight Exposure:** Maximize exposure to direct sunlight. Avoid shaded areas from trees, buildings, or other obstructions.
- **Angle Adjustment:** Periodically adjust the panel angle to follow the sun's path for peak power generation.
- **Compatibility:** This solar suitcase is compatible with most portable power stations and various battery types (e.g., AGM, Gel, LiFePO4). Ensure your power station's DC input voltage is within the acceptable range (e.g., exceeding 48V for some stations, or 10V-100V DC input).

Unyielding Strength for Extended Outdoor Reliability



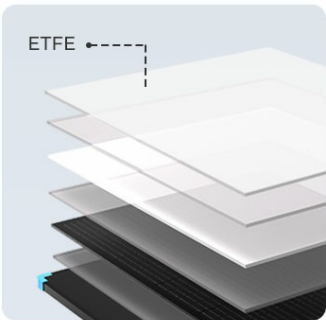
Protective Case
Easily portable for transportation, offering impact protection.



Fiberglass Reinforcement
Delivers exceptional durability even in the face of light hailstorms.



Corner Protection
ensures longevity and resilience against wear and tear.



ETFE Coating
Provides enhanced durability and weather resistance.

Figure 4: The solar suitcase offers versatile compatibility with different battery types and portable power stations, suitable for diverse scenarios like camping, RV use, and home backup.

Official Product Videos

Renogy 400W Lightweight Portable Solar Suitcase Overview

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This video provides a concise overview of the Renogy 400W Lightweight Portable Solar Suitcase, highlighting its key features and benefits for portable power generation.

Power Your Off-Grid DIY Project with Renogy Solar

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Learn how the Renogy 400W solar suitcase can be integrated into your off-grid DIY projects, demonstrating its versatility and ease of use for various power needs.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your solar suitcase.

- **Cleaning:** Periodically clean the surface of the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid abrasive cleaners or harsh chemicals.

- **Inspection:** Regularly inspect the cables, connectors, and kickstands for any signs of wear, damage, or corrosion. Ensure all connections remain secure.
- **Storage:** When not in use, fold the solar suitcase and store it in its protective case in a dry, cool place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

If you encounter issues with your Renogy 400W Lightweight Portable Solar Suitcase, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Low Power Output	<ul style="list-style-type: none">◦ Insufficient sunlight◦ Panel surface is dirty◦ Partial shading◦ Incorrect angle	<ul style="list-style-type: none">◦ Move to a location with direct sunlight.◦ Clean the panel surface.◦ Remove any obstructions causing shade.◦ Adjust the panel angle towards the sun.
No Power Output	<ul style="list-style-type: none">◦ Loose or incorrect connections◦ Damaged cables or connectors◦ Incompatible power station/charge controller	<ul style="list-style-type: none">◦ Check all cable connections for tightness and correct polarity.◦ Inspect cables and connectors for visible damage. Replace if necessary.◦ Ensure your power station/charge controller is compatible with the solar panel's voltage and current specifications.

SPECIFICATIONS

Attribute	Value
Brand	Renogy
Model Number	RSP400LSC
Maximum Power	400 Watts
Material	Fiberglass
Product Dimensions (L x W x H)	27.9"L x 3.2"W x 33.7"H (Folded)
Item Weight	30.2 Pounds
Efficiency	High Efficiency (23% cell efficiency)
Connector Type	IP68 solar connectors
Maximum Voltage (VOC)	67.5 Volts (DC)
IP Rating	≥IP67
Coating	ETFE

Attribute	Value
UPC	840315218680

WARRANTY AND SUPPORT

The Renogy 400W Lightweight Portable Solar Suitcase comes with a **3-year coverage** for materials and workmanship. Additionally, Renogy provides a **10-year guarantee** ensuring 80% output reliability. For technical support, warranty claims, or further assistance, please visit the official Renogy website or contact their customer service department. Keep your purchase receipt for warranty validation.

Renogy Official Website: www.renogy.com

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question