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ROCKPALS SP002

ROCKPALS Foldable Solar Panel 60W SP002 Instruction Manual

Model: SP002 | Brand: ROCKPALS

1. Introduction

The ROCKPALS Foldable Solar Panel 60W SP002 is a portable solar charger designed to provide power for various devices and portable power stations. It features high conversion efficiency and a durable, water-resistant design, making it suitable for outdoor activities and off-grid use.

Key Features:

- **Wide Compatibility:** Designed to be compatible with most solar generators and portable power stations on the market, including various DC adapter sizes (5.5*2.1mm, 8mm, 3.5*1.35mm) and 5V USB devices.
- **3-USB Smart Charging Technology:** Built-in smart IC chip intelligently identifies devices to maximize charging speed and protect against overcharging. USB ports (up to 2.4A max 5V DC per port, 6A max overall) adjust current based on the sunlight level.
- **High Conversion Efficiency:** Constructed with high-efficiency solar arrays, converting up to 21.5-23.5% of solar power into energy.
- **Water-Resistant & Durable:** Made from durable Oxford cloth, water-resistant to withstand various weather conditions. Ideal for camping, climbing, hiking, and picnics. *Note: The junction box is not waterproof and must be kept dry.*
- **Foldable & Portable:** Features a foldable design for convenient transport. Folded dimensions: 13.78 x 13.39 x 2.36 inches.

2. Setup

To set up your ROCKPALS Foldable Solar Panel 60W SP002, follow these steps:

1. **Unfold the Panel:** Carefully unfold the solar panel completely.
2. **Position for Sunlight:** Place the unfolded panel in direct sunlight. Utilize the adjustable kickstands on the back of the panel to angle it directly towards the sun for optimal power generation.
3. **Connect Devices:** Open the zippered pouch on the panel to access the connection ports and cables.



Image: The ROCKPALS 60W Foldable Solar Panel deployed with its adjustable kickstands, angled to capture maximum sunlight.

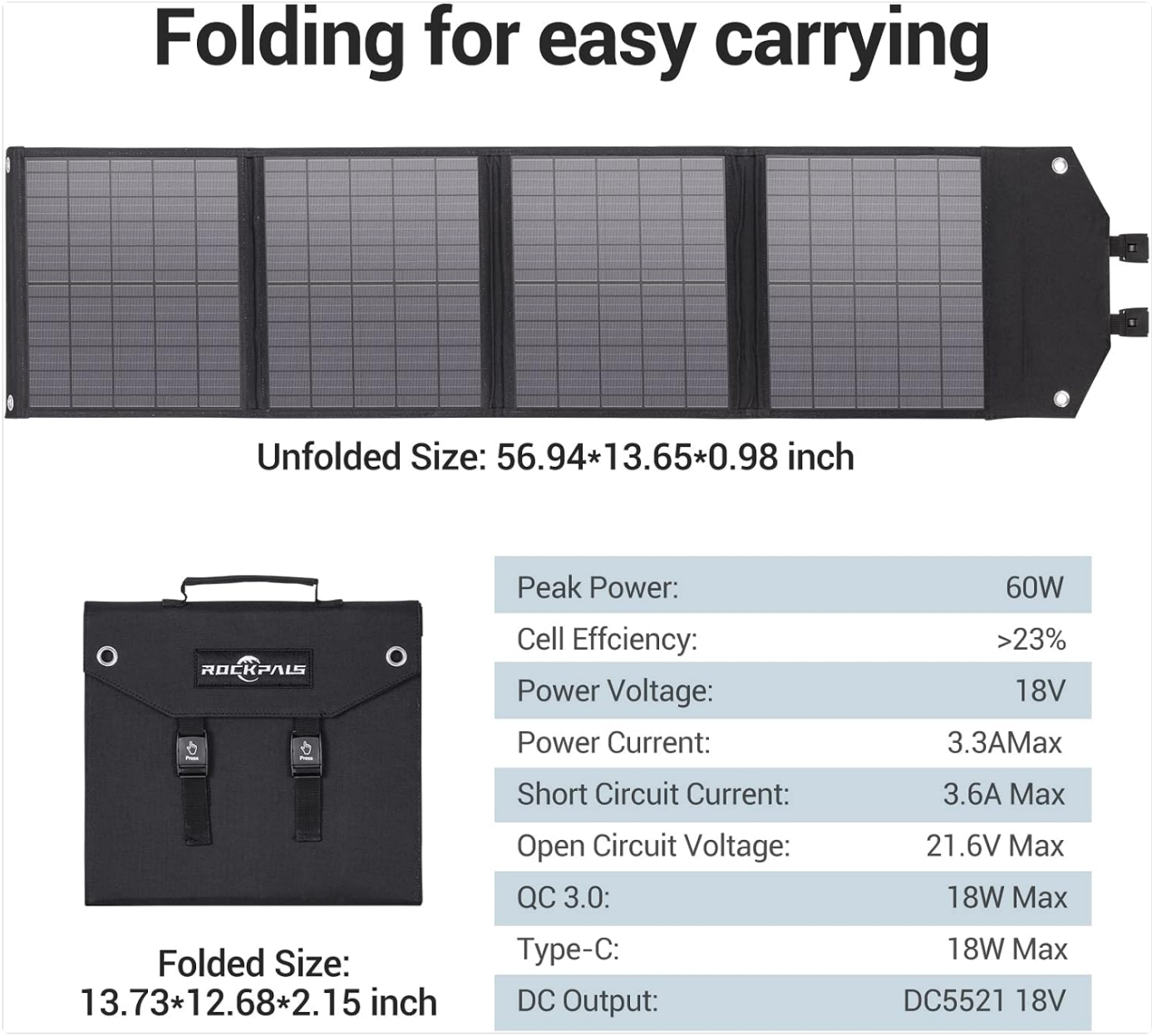


Image: The ROCKPALS 60W Foldable Solar Panel in its compact, folded form, highlighting its portability and the integrated accessory pouch.

3. Operating Instructions

The solar panel offers multiple output options for charging various devices:

Connecting to Portable Power Stations:

The panel includes various DC connectors to ensure compatibility with most portable power stations. Identify the correct adapter for your power station's input port.

- **5.5*2.1mm DC Adapter:** For ROCKPALS 250W/300W/350W/500W, Flashfish, and MARBERO Portable Power Stations.
- **8mm DC Adapter:** For Jackery and BALDR Portable Power Stations.
- **3.5*1.35mm DC Adapter:** For Omorc and Elecaenta Portable Generators.

Connect the appropriate DC adapter cable from the solar panel's junction box to your portable power station's input port. Ensure a secure connection.



Image: Compatibility chart for the ROCKPALS solar panel, illustrating different DC connector types and the power station brands they support.

Connecting to USB Devices:

The panel features USB-A (QC3.0) and USB-C ports for direct charging of 5V USB devices such as smartphones, tablets, GPS units, and digital cameras. Simply plug your device's USB cable into the corresponding port on the solar panel's junction box.
The built-in smart IC chip will automatically detect your device and deliver the optimal charging current.

4. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your solar panel:

- **Cleaning:** Regularly wipe down the solar panels with a soft, damp cloth to remove dust, dirt, and debris. A clean surface ensures maximum solar energy absorption.
- **Water Resistance:** The solar panel itself is water-resistant (IP65 rated) and can endure various weather conditions.

However, the junction box (where the ports are located) is **not waterproof**. Always ensure the junction box remains dry to prevent damage.

- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or placing heavy objects on the solar panel to prevent damage to the solar cells.



Image: The water-resistant surface of the ROCKPALS solar panel, demonstrating its durability against outdoor elements.

5. Troubleshooting

If you encounter issues with your solar panel, consider the following:

- **No Charging/Low Output:**
  - Ensure the panel is in direct sunlight and not shaded by trees, buildings, or clouds.
  - Adjust the panel's angle using the kickstands to face the sun directly.
  - Check all cable connections to ensure they are secure and correctly inserted.

- Clean the surface of the solar panels from any dirt or dust.
- Verify that your device or power station is compatible with the panel's output specifications.

- **Junction Box Overheating:**
  - Ensure the junction box is not exposed to direct sunlight for extended periods, especially in hot weather.
  - Confirm that the junction box is dry and free from moisture.
- **Device Not Recognized:**
  - Try connecting a different device to confirm if the issue is with the solar panel or the device itself.
  - Ensure the device's charging cable is functioning correctly.

For persistent issues, please refer to the Warranty and Support section.

6. Specifications

Brand	ROCKPALS
Model Number	RP-02
Material	Monocrystalline Silicon
Product Dimensions (Folded)	13.78"L x 13.39"W x 2.36"H
Product Dimensions (Unfolded)	56.94"L x 13.65"W x 0.98"H (Approximate, based on visual)
Item Weight	5.66 pounds (90.6 Ounces)
Efficiency	Up to 23.5%
Peak Power	60W
Power Voltage	18V
Power Current	3.3A Max
Short Circuit Current	3.6A Max
Open Circuit Voltage	21.6V Max
QC 3.0 Output	18W Max
Type-C Output	18W Max
DC Output	DC5521 18V
Special Feature	Short Circuit Protection, Waterproof (Panel only)

7. Warranty and Support

For warranty information, technical support, or any inquiries regarding your ROCKPALS Foldable Solar Panel 60W SP002, please contact ROCKPALS customer service. Refer to the product packaging or the official ROCKPALS website for the most up-to-date contact details.

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