

GRECELL S240

GRECELL 240W Portable Solar Panel S240 Instruction Manual

Model: S240

INTRODUCTION

Thank you for choosing the GRECELL 240W Portable Solar Panel. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your solar panel. Please read this manual thoroughly before use and retain it for future reference.

PRODUCT FEATURES

- **High-Efficiency Monocrystalline Solar Cells:** Utilizes high-quality monocrystalline silicon cells with a conversion rate exceeding 25%. Designed for maximum efficiency, generating more power in less space, even in low-light conditions.
- **Portable and Easy to Install:** Features a foldable design for convenient transport and storage, weighing approximately 16.3 lbs. Folds down to 16.14 × 16.33 × 3.54 inches. Includes an adjustable stand for stable placement and reinforced grommets for versatile mounting. A built-in zippered pocket keeps cables organized.
- **Wide Compatibility:** Equipped with multiple connectors (XT60/Anderson/DC7909/DC8020) for compatibility with various portable power stations and solar generators, including Jackery, Ecoflow, Paxcess, Suaoki, and Flashfish.
- **IP65 Waterproof & Durable:** Constructed with ultra-lightweight ETFE material, making the solar panel waterproof and dustproof. Built to withstand harsh weather conditions for outdoor use. *Note: Avoid submerging the solar panel in water for extended lifespan.*
- **Expandable for Higher Power:** Supports series/parallel connections to increase output power, reducing charging time for power stations. Features MC-4 output with reverse charge protection for safe charging.

PACKAGE CONTENTS

- 1 x GRECELL 240W Foldable Solar Panel
- 1 x MC-4 to 3-in-1 Cable (Anderson/XT60/DC 7.9*0.9 Connector)
- 1 x 7.9*0.9mm to 8.0*2.0mm Adapter
- 1 x User Manual

SETUP INSTRUCTIONS

1. **Unfold the Solar Panel:** Carefully unfold the GRECELL 240W solar panel on a flat, stable surface.
2. **Position for Optimal Sunlight:** Extend the adjustable kickstands on the back of the panel to angle it towards the sun. For best results, position the panel to receive direct sunlight without any shading. The optimal angle is typically 45-60 degrees relative to the ground, depending on your location and time of day.

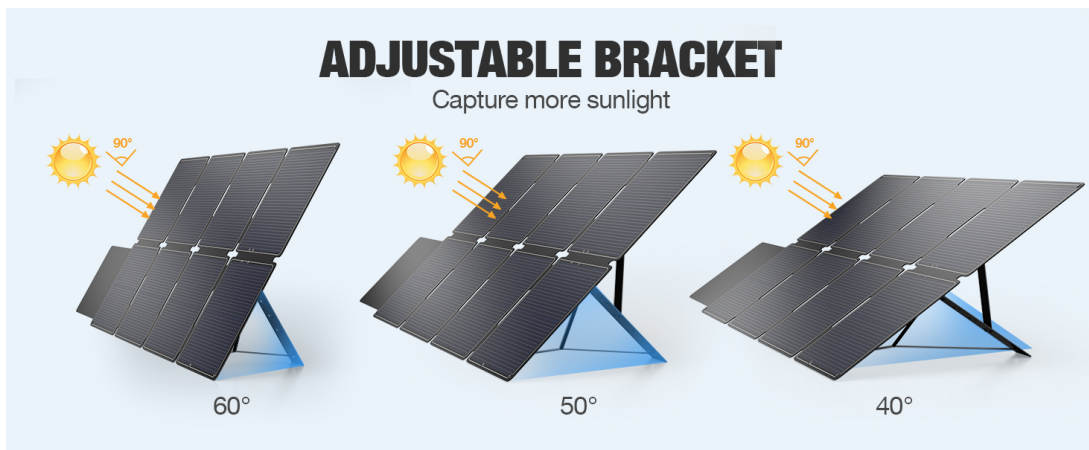


Image: Diagram illustrating various angles (60°, 50°, 40°) for the adjustable bracket to capture more sunlight.

3. **Secure the Panel:** If necessary, use the reinforced grommets to secure the panel to an RV, tent, or other stable structure, especially in windy conditions.

IDEAL FOR OUTDOOR ACTIVITIES

With 4 hanging holes, this solar panel easily ties to your car, RV, or tree, providing on-the-go charging for your devices.



Image: A GRECELL solar panel attached to the side of a white RV, demonstrating its use for on-the-go charging during outdoor activities.

4. **Access Connection Cables:** Open the built-in zippered pocket on the back of the panel to access the MC-4 output cables and included adapters.
5. **Connect to Power Station:**

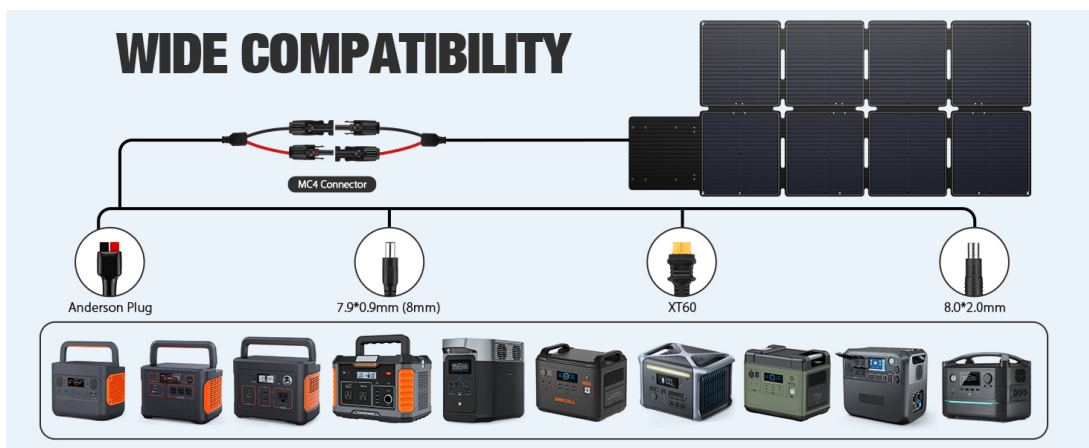


Image: Diagram illustrating the wide compatibility of the solar panel with different connector types (Anderson, 7.9*0.9mm, XT60, 8.0*2.0mm) and various portable power stations.

- Identify the correct input port on your portable power station.
- Select the appropriate adapter from the included accessories (XT60, Anderson, DC7909, DC8020) that matches your power station's input.
- Connect the MC-4 output cable from the solar panel to the chosen adapter, then connect the

adapter to your power station.

6. Series/Parallel Connection (for higher power):



Image: Two GRECELL solar panels deployed in front of an RV, connected to a portable power station, demonstrating smart charging technology with series or parallel connection options.

- To connect multiple GRECELL solar panels for increased power, use appropriate MC-4 Y-branch connectors (not included) for parallel connections.
- Ensure all connections are secure and correctly polarized (positive to positive, negative to negative for parallel; positive to negative for series).

OPERATING INSTRUCTIONS

1. **Initiate Charging:** Once connected to your power station and exposed to sunlight, the solar panel will automatically begin charging. Most power stations will display the incoming wattage.
2. **Monitor Charging Efficiency:**



Image: A GRECELL solar panel deployed outdoors, connected to a portable power station, highlighting its 25% high efficiency and 240W maximum output.

- Periodically check the power station's display for the charging wattage.
 - Adjust the panel's angle throughout the day to follow the sun's path for maximum efficiency.
 - Clear any shadows or obstructions that may fall on the panel, as even partial shading can significantly reduce output.
3. **Charging in Various Conditions:** The panel is designed to work even in low-light conditions, but direct, unobstructed sunlight will yield the highest power output.
 4. **Disconnecting:** When finished charging, disconnect the cables from the power station first, then from the solar panel. Fold the panel and secure it for storage.

MAINTENANCE

- **Cleaning:** Regularly clean the surface of the solar panel to remove dust, dirt, leaves, or other debris that may reduce efficiency. Use a soft brush or a damp (not wet) cloth. Avoid harsh chemicals or abrasive materials.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures. Ensure cables are neatly stored in the zippered pocket.
- **Water Exposure:** While the panel is IP65 waterproof and dustproof, avoid submerging it in water to

prolong its lifespan. If exposed to rain, allow it to dry completely before folding and storing.

- **Inspection:** Periodically inspect the panel and cables for any signs of damage, wear, or loose connections. Address any issues promptly.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output or low wattage	<ul style="list-style-type: none">◦ Insufficient sunlight or shading◦ Incorrect panel angle◦ Loose or incorrect connections◦ Dirty panel surface◦ Cloudy weather	<ul style="list-style-type: none">◦ Relocate the panel to direct sunlight, free from shadows.◦ Adjust the panel's angle to face the sun directly.◦ Check all cable connections to ensure they are secure and correctly matched.◦ Clean the panel surface.◦ Understand that output will be lower on cloudy days.
Panel not charging power station	<ul style="list-style-type: none">◦ Incompatible adapter◦ Power station input issue◦ Damaged cable or panel	<ul style="list-style-type: none">◦ Ensure the correct adapter is used for your power station model.◦ Test the power station with another charging method if possible.◦ Inspect cables and panel for visible damage. Contact support if damage is found.

SPECIFICATIONS

Feature	Detail
Brand	GRECELL
Model Number	S240
Maximum Power	240 Watts
Efficiency	>25% High Efficiency
Material	Aluminum, Monocrystalline Silicon
Item Weight	16.31 Pounds

Feature	Detail
Folded Size (L×W×H)	16.14" × 16.33" × 3.54"
Unfolded Size (L×W×H)	76.22" × 32.91" × 0.38"
Maximum Voltage	19.8 Volts
Amperage Capacity	11.59 Amps
Connector Type	DC, MC4 (with included adapters for Anderson, XT60, DC7909, DC8020)
Special Features	Foldable, Portable, Waterproof (IP65), Weather Resistant
Operating Temperature Range	14°F to 149°F (-10°C to 65°C)

SAFETY INFORMATION

- Do not attempt to modify or disassemble the solar panel.
- Keep the solar panel away from open flames, heat sources, and corrosive materials.
- Avoid bending the solar panel excessively (more than 30 degrees) to prevent damage to the cells.
- Ensure proper ventilation around the power station during charging to prevent overheating.
- Always handle electrical connections with care.
- Keep out of reach of children.

WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official GRECELL website. Please have your model number (S240) and purchase date available when contacting support.