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BLUETTI PV350

BLUETTI 350W Solar Panel (PV350) Instruction Manual

Your Guide to Portable Solar Power

1. INTRODUCTION

Thank you for choosing the BLUETTI 350W Solar Panel (PV350). This foldable and portable solar panel is designed to provide efficient and reliable solar power for your portable power stations, making it ideal for RVs, camping, and emergency power outages. This manual provides essential information on the setup, operation, maintenance, and specifications of your PV350 solar panel to ensure optimal performance and longevity.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the BLUETTI PV350 Solar Panel. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not attempt to disassemble, repair, or modify the solar panel.
- Keep the solar panel away from open flames, heat sources, and corrosive substances.
- Avoid exposing the solar panel to extreme temperatures or direct water immersion. The panel is designed to withstand splashes but is not waterproof.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Handle the solar panel with care to avoid physical damage.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are included in your package:

- BLUETTI PV350 Solar Panel
- User Manual (this document)

4. SETUP

Setting up your BLUETTI PV350 Solar Panel is straightforward. Follow these steps for quick deployment:

1. **Unfold the Solar Panel:** Carefully unfold the PV350 solar panel on a flat, stable surface. The panel is designed to be self-supporting with its built-in kickstands.

2. **Position for Optimal Sunlight:** Adjust the angle of the solar panel using the integrated kickstands to face the sun directly. An angle of approximately 45 degrees to the ground is often optimal for capturing maximum sunlight, especially during midday.



Figure 4.1: The BLUETTI PV350 Solar Panel fully unfolded, showcasing its four segments and integrated kickstands for easy setup.

CAPTURE MORE SUNLIGHT*

W/ 4 built-in kickstands



* BLUETTI 350W solar panel tilted 45° gets 25%~30% more of sunlight than lying flat.

Figure 4.2: A person adjusting the BLUETTI PV350 solar panel to a 45-degree tilt using its built-in kickstands, demonstrating how to optimize sunlight capture.

3. **Connect to Power Station:** Locate the MC4 connectors on the solar panel. Connect these to the corresponding solar input ports on your BLUETTI portable power station (e.g., AC70, AC180, AC240, AC200L, AC300, AC500) or other compatible solar generators. Ensure the connection is firm and secure.



Figure 4.3: The BLUETTI PV350 Solar Panel deployed in a rugged outdoor setting, connected to a BLUETTI power station, ready for off-grid power generation.

5. OPERATING

The BLUETTI PV350 Solar Panel is designed for high efficiency and ease of use. Here are key operational aspects:

- **High Cell Efficiency:** The PV350 is built with monocrystalline solar cells, allowing it to convert up to 23.4% of

sunlight into usable electricity. This high efficiency ensures power generation even on overcast days.

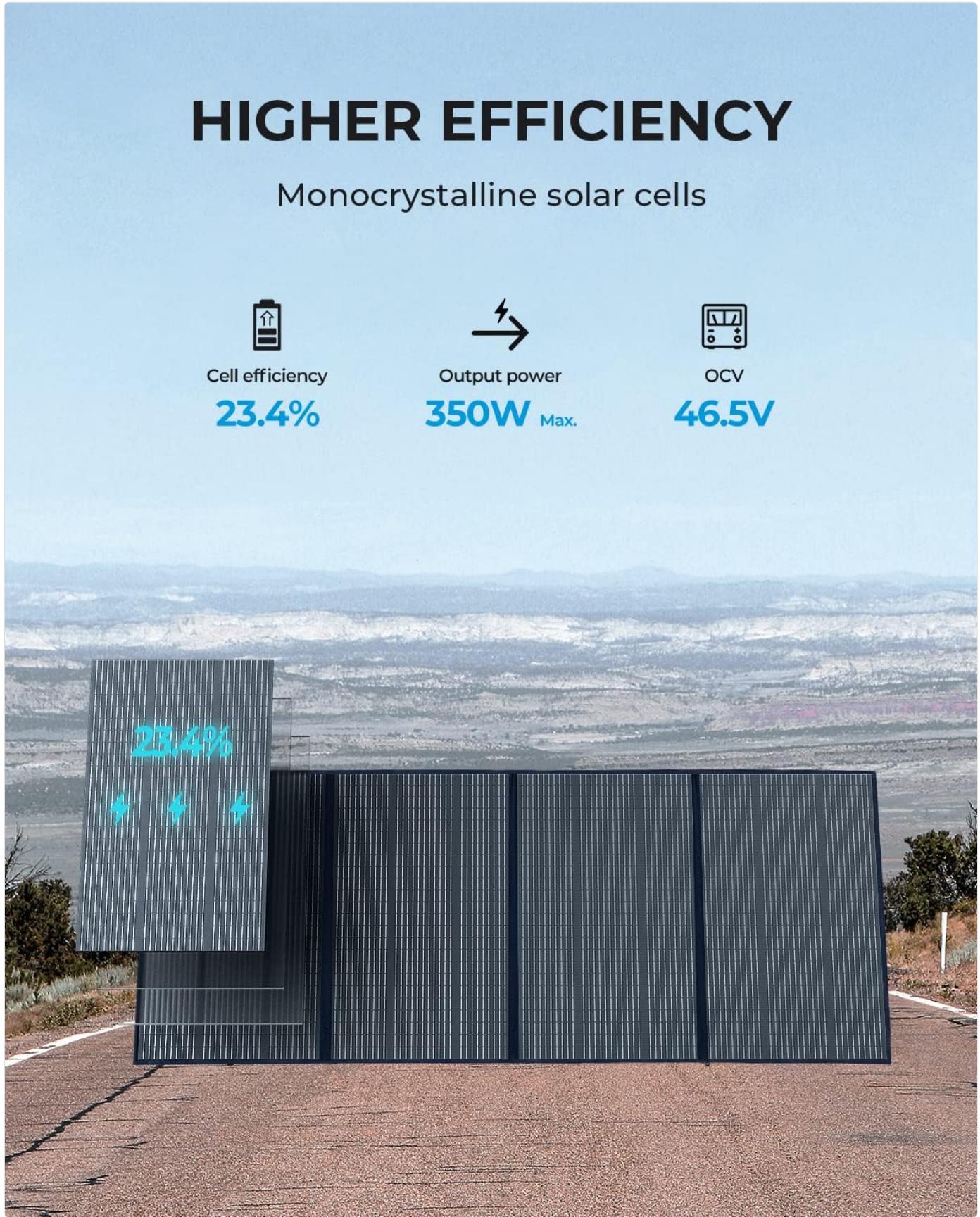


Figure 5.1: An infographic highlighting the PV350's high efficiency, showing 23.4% cell efficiency, 350W maximum output power, and 46.5V Open Circuit Voltage (OCV).

- **Universal Compatibility:** The PV350 features MC4 connectors, making it compatible with a wide range of BLUETTI power stations and other large-capacity solar generators on the market.

UNIVERSAL COMPATIBILITY

Not just for BLUETTI*

AC200L

3H

$3 \times 350W$

AC300 & B300K

4H

$3 \times 350W$

AC500 & 2 B300K

7H

$3 \times 350W$



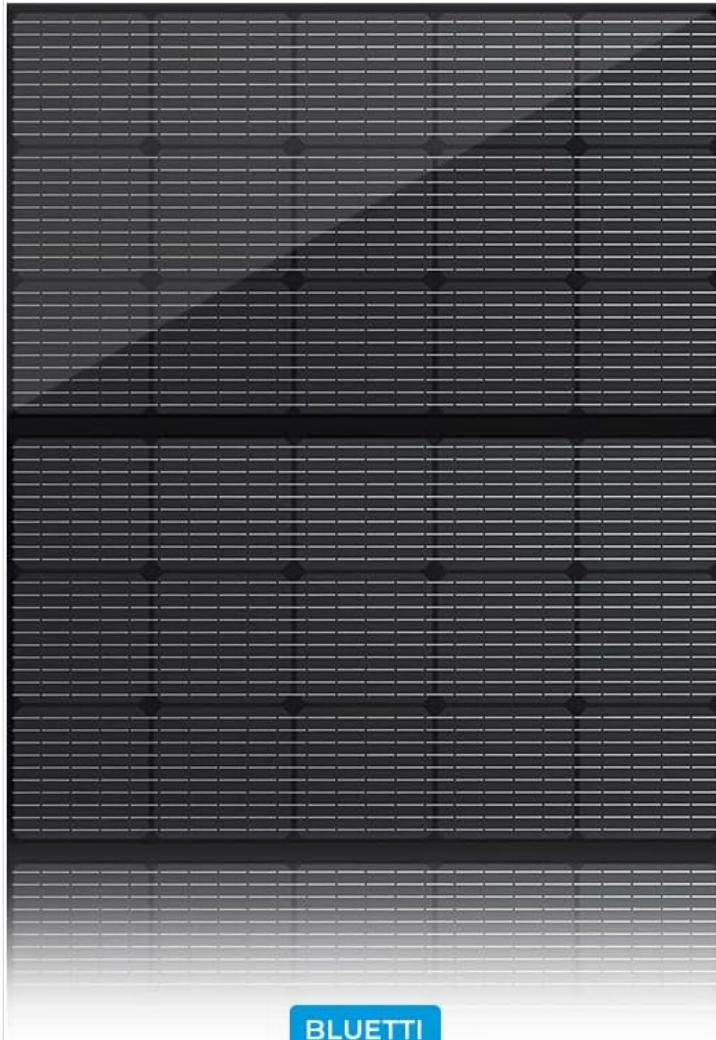
* BLUETTI solar panels with MC4 connectors also work well with most solar generators on the market.

Figure 5.2: This image illustrates the universal compatibility of the BLUETTI PV350, showing its ability to charge various BLUETTI power stations like AC200L, AC300 & B300K, and AC500 & 2 B300K, along with estimated charging times.

- **Shading Performance:** The PV350 is designed to perform well even with partial shading due to its parallel wiring configuration, which minimizes power loss compared to series-wired panels.

NO FEAR OF SHADING

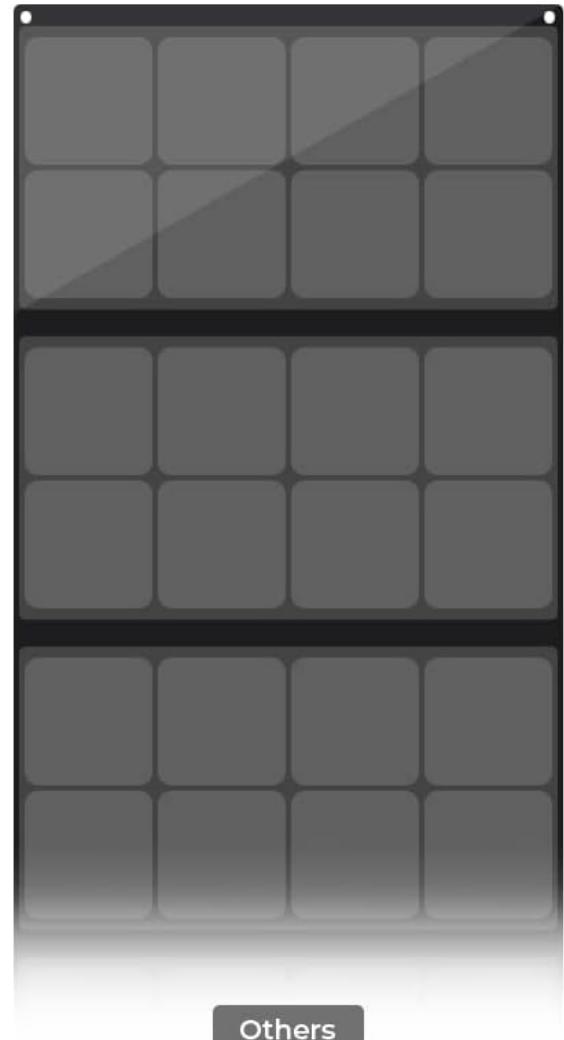
Perform well even with shades*



50%

Wired in Parallel

50% shades, 50% production



10%

Wired in Series

50% shades, 10% production

* For safety purposes and better performance, minimizing shading is highly recommended.

Figure 5.3: A visual comparison demonstrating BLUETTI's superior performance under partial shading (50% production with 50% shade due to parallel wiring) compared to typical series-wired panels (10% production).

6. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your BLUETTI PV350 Solar Panel.

- **Cleaning:** Regularly clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris that may reduce efficiency. Do not use harsh chemicals or abrasive materials.
- **Durable ETFE Coating:** The PV350 features a long-lasting ETFE coating, which provides excellent scratch resistance and protection against water splashes. This coating also ensures high light transmittance and UV resistance for extended lifespan.

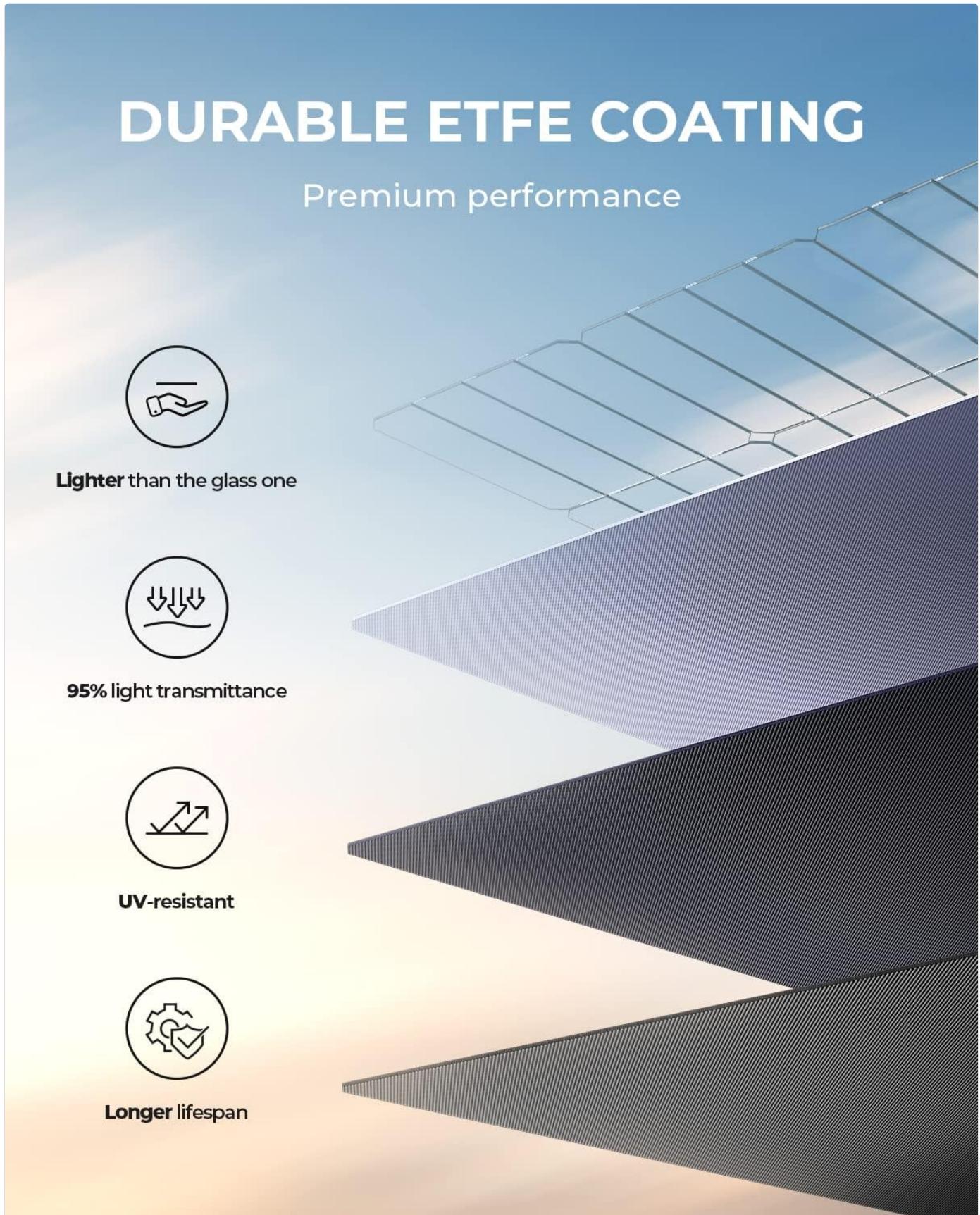


Figure 6.1: A layered diagram illustrating the durable ETFE coating, emphasizing its benefits such as being lighter than glass, 95% light transmittance, UV resistance, and longer lifespan.

- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place. Its compact folded size (35.6 × 24.1 × 2.5 inches) and weight (30.6 lbs) make it highly portable and easy to store.

CARRY BAG ON THE GO

Foldable | Portable

L

35.6"×24.1"

Folded size

—

30.6 lbs

Weight



Figure 6.2: A person effortlessly carrying the folded BLUETTI PV350 solar panel, demonstrating its portability and compact design for transport and storage.

7. TROUBLESHOOTING

If you encounter issues with your BLUETTI PV350 Solar Panel, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Low power output	Insufficient sunlight, partial shading, incorrect angle, dirty panel surface.	Ensure direct sunlight exposure, adjust panel angle, clean the surface. Minimize shading as much as possible.
No charging	Loose connection, incompatible power station, damaged cable/panel.	Check all cable connections. Verify compatibility with your power station. Inspect cables and panel for visible damage. Contact customer support if issues persist.
Panel overheating	Poor ventilation, extreme ambient temperature.	Ensure adequate airflow around the panel. If operating in very hot conditions, consider providing some indirect shade to the panel's underside.

For issues not listed here or if solutions do not resolve the problem, please contact BLUETTI customer support.

8. SPECIFICATIONS

Detailed technical specifications for the BLUETTI PV350 Solar Panel:

Feature	Specification
Model	PV350
Maximum Power (Pmax)	350 Watts
Cell Efficiency	Up to 23.4%
Maximum Voltage (Vmp)	46.5 Volts
AC Adapter Current	9.2 Amps
Material	Monocrystalline Silicon
Product Dimensions (Unfolded)	90.42 x 61.21 x 6.35 cm (35.6 x 24.1 x 2.5 inches)
Item Weight	13.88 kg (30.6 lbs)
Connector Type	MC4

9. WARRANTY AND SUPPORT

BLUETTI is committed to providing high-quality products and excellent customer service.

- Return Policy:** This product is eligible for a 30-day refund/replacement return policy. Please refer to your purchase platform for specific terms and conditions.
- Customer Support:** For any questions, technical assistance, or warranty claims, please contact BLUETTI customer support using the information below:

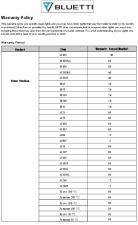
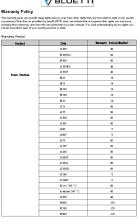
BLUETTI POWER INC.

Address: 6185 S Valley View Blvd Ste D. Las Vegas NV 89118

Customer Support: +1 800-200-2980

Operating Hours: Monday to Sunday 06:00 - 17:00 (PST/PDT)

Related Documents - PV350

	<p>BLUETTI Warranty Policy: Coverage, Claims, and Exclusions for Power Stations</p> <p>Comprehensive warranty policy for BLUETTI portable power stations, solar panels, and battery modules. Learn about warranty periods, how to claim, refunds, and exclusions.</p>
	<p>BLUETTI Warranty Policy and Product Coverage Details</p> <p>Comprehensive warranty policy for BLUETTI portable power stations, battery modules, solar panels, and accessories. Includes warranty periods, exclusions, and step-by-step instructions for claiming warranty, refunds, and returns.</p>
<p>AC180 Portable Power Station User Manual <small>Please read this manual carefully before use and keep it for future reference.</small></p> 	<p>BLUETTI AC180 Portable Power Station User Manual</p> <p>Comprehensive user manual for the BLUETTI AC180 Portable Power Station. Covers setup, operation, safety guidelines, specifications, charging methods, discharging, troubleshooting, and app control for this 1800W LiFePO4 power station.</p>
<p>CHARGER 1 DC-DC Charger User Manual <small>Please read this manual carefully before use and keep it for future reference.</small></p> 	<p>BLUETTI CHARGER 1 DC-DC Charger User Manual V1.0</p> <p>User manual for the BLUETTI CHARGER 1 DC-DC Charger, detailing its features, safety instructions, specifications, installation, operation, and troubleshooting. Designed for fast charging BLUETTI portable power stations from a vehicle's 12V or 24V battery.</p>
	<p>BLUETTI PV350 Solar Panel User Guide</p> <p>User guide for the BLUETTI PV350 350W solar panel, covering setup, technical specifications, safety guidelines, and frequently asked questions. Learn how to connect and use the panel safely and efficiently.</p>
	<p>BLUETTI PV350 350W Folding Solar Panel User Manual</p> <p>Comprehensive user manual for the BLUETTI PV350, a high-efficiency 350W portable folding solar panel. Learn about its specifications, setup, operation, maintenance, and safety guidelines for outdoor power generation.</p>

