ZOUPW ZOUPW-EZ450W

ZOUPW N-Type 16BB 450W Portable Solar Panel User Manual

Model: ZOUPW-EZ450W

1. Product Overview

The ZOUPW N-Type 16BB 450W Portable Solar Panel is designed to provide reliable power for various outdoor and emergency scenarios. Featuring high-efficiency monocrystalline solar cells and a durable, foldable design, this panel is suitable for charging power stations during RV trips, camping, or power outages.



Image 1.1: The ZOUPW 450W Portable Solar Panel shown unfolded, alongside its carrying bag, solar extension cable, and multi-connector adapter cable.

Key Features:

- **High Conversion Efficiency:** Utilizes A+ monocrystalline silicon cells for up to 25% conversion rate.
- **Durable Construction:** Reinforced PC material hinges, fiberglass material, and IP68 waterproof ETFE coating ensure longevity and resistance to harsh weather.
- **Portable Design:** Foldable with a lightweight design (26.78 lbs) for easy transport and quick setup.
- **Adjustable Kickstands:** Four reinforced kickstands allow for optimal angle adjustment to maximize sunlight absorption.
- **Broad Compatibility:** Includes a 4-in-1 solar cable with DC7909, DC8020, XT-60, and Anderson connectors for various power stations.

2. Setup Instructions

Follow these steps to set up your ZOUPW 450W Portable Solar Panel:

1. **Unpack the Panel:** Carefully remove the solar panel from its storage bag.
2. **Unfold the Panel:** Gently unfold the solar panel sections until it is fully extended. The reinforced hinges are designed for durability during this process.

3. **Position the Panel:** Place the panel in an area with direct sunlight, free from obstructions like trees or buildings.
4. **Adjust Kickstands:** Extend the four adjustable kickstands located on the back of the panel. Adjust them to achieve an optimal angle (approximately 40 degrees to the ground) for maximum sunlight absorption. Ensure the kickstands are stable on a flat surface.



Image 2.1: A close-up view illustrating the adjustable kickstands of the solar panel, positioned to achieve a 40-degree angle for optimal solar exposure.

Note: Do not press on the solar panel when the kickstands are fully extended to avoid damage. The setup process typically takes less than 10 seconds.

3. Operating Instructions

To operate your ZOUPW 450W Portable Solar Panel and charge your power station:

1. **Connect the Cable:** Use the provided 4-in-1 solar cable. Connect the solar connector end to the output port of the solar panel.

2. **Select Adapter:** Choose the appropriate adapter (DC7909, DC8020, XT-60, or Anderson) from the 4-in-1 cable that matches the input port of your power station.
3. **Connect to Power Station:** Plug the selected adapter into your power station's solar input port.
4. **Verify Charging:** Confirm that your power station indicates it is receiving a charge. Ensure the input voltage range of your power station accommodates 38V.



Image 3.1: A visual guide demonstrating how the solar panel connects to different large-capacity power stations using the included Anderson, XT60, DC7909, and DC8020 adapters.

Important Notes:

- This solar panel does not store electricity; it generates power directly from sunlight.
- For optimal charging performance, ensure the panel is used under sufficient sunlight conditions.
- The N-TYPE 16BB design enhances current collection efficiency and minimizes energy loss, allowing for superior power output even in low-light conditions.

4. Maintenance

Proper maintenance ensures the longevity and optimal performance of your 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. Avoid abrasive materials or harsh chemicals.
- **Water Resistance:** The panel features IP68 waterproof protection and an ETFE coating. It is designed to withstand rain and splashes. **Do not submerge the solar panel in water.**
- **Inspection:** Periodically inspect the panel, cables, and connectors for any signs of wear, damage, or corrosion. Ensure all connections are secure.
- **Storage:** When not in use, fold the panel and store it in the provided stylish storage bag. This protects it from physical damage and environmental elements. Store in a cool, dry place.

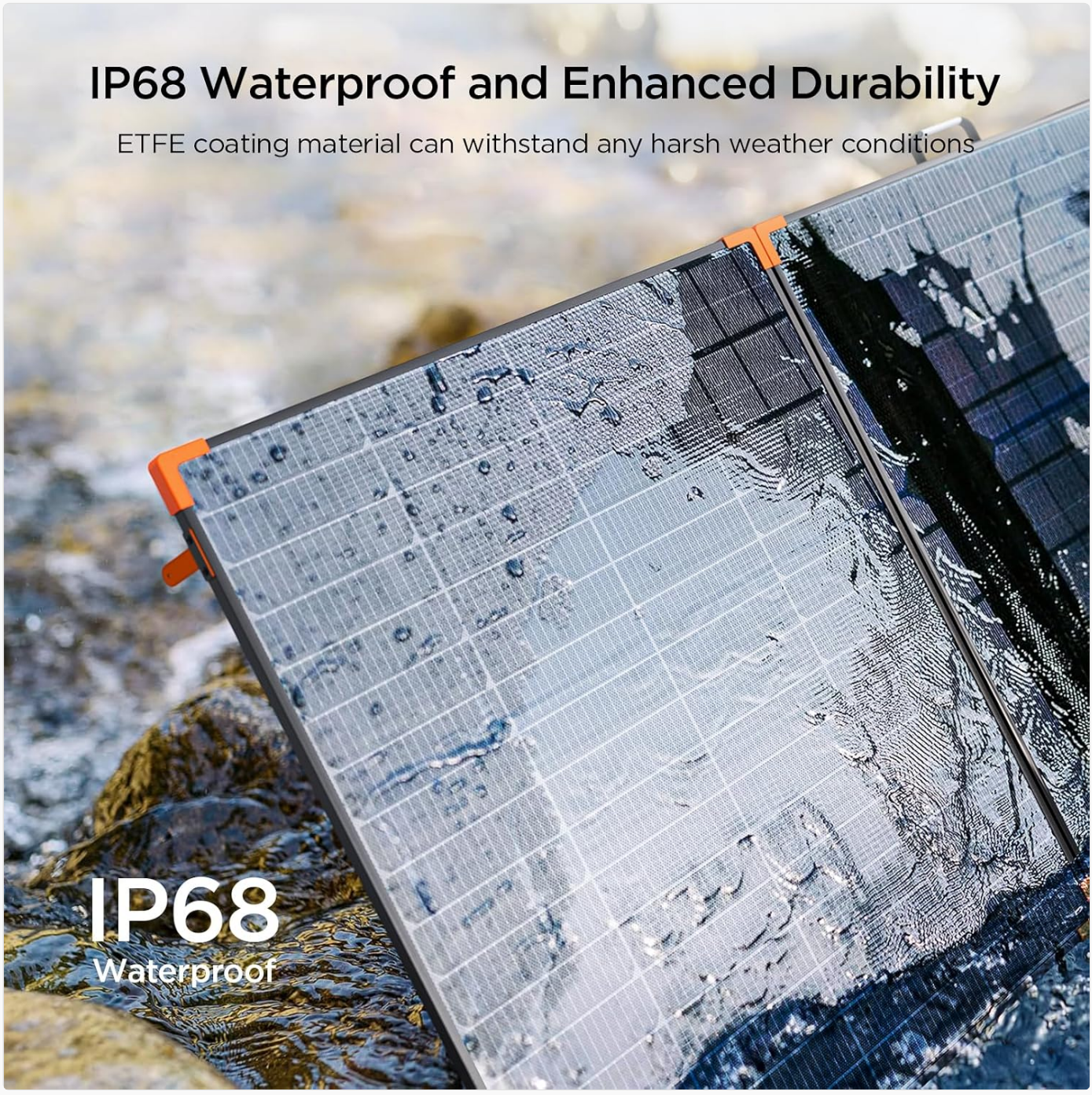


Image 4.1: A detailed view of the solar panel's surface, showing water droplets, which demonstrates its IP68 waterproof capability and ETFE coating for weather resistance.



Image 4.2: A person carrying the ZOUPW 450W Portable Solar Panel in its dedicated storage bag, illustrating its portability and ease of transport.

5. Troubleshooting

If you encounter issues with your solar panel, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power output or low charging rate.	Insufficient sunlight, panel obstruction, incorrect angle, dirty panel surface, loose connection, incompatible power station input.	Ensure direct sunlight exposure. Remove any shadows or obstructions. Adjust kickstands for optimal angle (approx. 40 degrees). Clean the panel surface. Check all cable connections for tightness. Verify your power station's input voltage range (must accommodate 38V).
Panel appears damaged.	Physical impact, improper handling.	Discontinue use and contact customer service for assistance.

If the problem persists after attempting these solutions, please contact ZOUPW customer service for further assistance.

6. Specifications

Detailed technical specifications for the ZOUPW N-Type 16BB 450W Portable Solar Panel:

- **Brand:** ZOUPW
- **Model Number:** ZOUPW-EZ450W
- **Maximum Power:** 450 Watts
- **Efficiency:** 25% high conversion efficiency
- **Material:** A+ monocrystalline solar cells, ETFE coating material, Fiberglass material
- **Product Dimensions (Unfolded):** 121.85"L x 0.79"W x 34.57"H
- **Folded Dimensions:** 30.43"L x 34.56"W x 3.54"H
- **Item Weight:** 26.8 Pounds (12.15 kg)
- **Maximum Voltage:** 45.9 Volts
- **AC Adapter Current:** 12.4 Amps
- **Upper Temperature Rating:** 140 Degrees Fahrenheit (60 Degrees Celsius)
- **Included Components:** 450W N-Type 16BB Foldable Solar Panel × 1, Storage Bag × 1, User Manual × 1, Solar connector to DC7909 (with DC8020 Adapter)/XT60/Anderson Cable × 1
- **Special Features:** 25% high conversion efficiency, A+ monocrystalline solar cells, Enhanced durability, Foldable design and easy setup, Hurricane preparedness item.

7. Warranty and Support

ZOUPW is committed to providing high-quality products and customer satisfaction.

- **Warranty:** This solar panel comes with a 36-month warranty service from the date of purchase.
- **Money-Back Guarantee:** A 30-day money-back guarantee is provided for your peace of mind.

- **Customer Service:** For any inquiries, technical support, or warranty claims, please contact our 7*24 friendly customer service team. Refer to the product packaging or the official ZOUPW website for contact details.

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