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› Zamp Solarr Obsidian Series 45WATT Portable Power KIT Regulated User Manual

Zamp Solar ZMPUSP2001

Zamp Solarr Obsidian Series 45WATT Portable Power KIT Regulated User Manual

MODEL: ZMPUSP2001

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1. Safety Information

Please read all safety instructions carefully before operating the Zamp Solarr Obsidian Series 45WATT Portable Power Kit. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Do not** attempt to disassemble or modify the solar panel or regulator.
- **Do not** expose the solar panel to open flames or extreme heat.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Keep the solar panel away from water and moisture.
- Handle the solar panel with care to avoid damage to the cells.
- Always connect the solar panel to a compatible battery or charge controller before connecting to devices.
- Supervise children when the solar panel is in use.

2. Package Contents

Verify that all items are present in your package:

- Zamp Solarr Obsidian Series 45WATT Portable Solar Panel
- Integrated Charge Controller (Regulator)
- Connection Cables (e.g., battery clamps, SAE connector)
- User Manual (this document)

3. Product Overview

The Zamp Solarr Obsidian Series 45WATT Portable Power Kit is designed to provide efficient and regulated solar charging for various applications. Its compact and lightweight design makes it ideal for off-grid adventures, RVs, camping, and emergency power needs. The integrated charge controller protects your batteries from overcharging, ensuring longevity and safety.



Figure 1: Zamp Solarr Obsidian Series 45WATT Portable Power Kit. This image shows the Zamp Solarr Obsidian Series 45WATT Portable Power Kit in its unfolded, operational state. The solar panel array is visible, designed to capture sunlight for power generation. A handle is present at the top for portability, and the base includes support structures to angle the panel towards the sun.

Key Features:

- 45-Watt Solar Power for portable charging.
- Regulated Charge to protect batteries from overcharging.
- Compact & Lightweight for easy transport and setup.
- Durable Build for outdoor and off-grid environments.
- Simple Plug & Play operation.

4. Setup Instructions

Follow these steps to set up your portable solar power kit:

1. **Unfold the Panel:** Carefully unfold the solar panel from its carrying position.
2. **Position the Panel:** Place the solar panel in a location with direct sunlight, free from shadows. Use the integrated kickstand or support structures to angle the panel towards the sun for maximum efficiency.
3. **Connect to Battery:**
 - Ensure the battery you are charging is compatible with a 12V solar charging system.
 - Connect the positive (+) cable from the solar panel's integrated charge controller to the positive terminal of your battery.
 - Connect the negative (-) cable from the solar panel's integrated charge controller to the negative terminal of your battery.
 - *Note:* Always connect the battery first to the charge controller before exposing the solar panel to sunlight.
4. **Verify Connection:** The integrated charge controller will typically have an indicator light to confirm a successful connection and charging status. Refer to the controller's specific indicators for details.

5. Operating Instructions

Once set up, the Zamp Solarr Obsidian Series 45WATT Portable Power Kit operates automatically to charge your battery.

- **Automatic Charging:** The solar panel will begin generating power and the integrated charge controller will regulate the output to safely charge your connected 12V battery.
- **Battery Protection:** The regulator prevents overcharging, ensuring the battery's health and extending its lifespan.
- **Monitoring:** Periodically check the charge controller's indicators to monitor charging status and battery voltage.
- **Optimal Performance:** For best results, ensure the panel is clean and positioned directly facing the sun throughout the day. Adjust its angle as the sun moves.

6. Maintenance

Proper maintenance ensures the longevity and efficiency of your solar power kit.

- **Cleaning:** Regularly clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, and debris. Avoid abrasive cleaners or harsh chemicals.
- **Inspection:** Periodically inspect cables and connectors for any signs of wear, damage, or corrosion. Replace damaged components immediately.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Battery Health:** Ensure the connected battery is also properly maintained according to its manufacturer's guidelines.

7. Troubleshooting

If your Zamp Solarr Obsidian Series 45WATT Portable Power Kit is not performing as expected, consult the following table:

Problem	Possible Cause	Solution
No charging indicator light.	No sunlight, incorrect connection, damaged cable.	Ensure direct sunlight. Check all cable connections for security and polarity. Inspect cables for damage.
Low charging output.	Partial shading, dirty panel, incorrect angle, low sun intensity.	Relocate panel to full sun. Clean panel surface. Adjust panel angle. Charging output is lower on cloudy days.
Battery not holding charge.	Battery issue, insufficient charging time.	Test the battery independently. Allow sufficient time for charging, especially for larger batteries or on less sunny days.

If you continue to experience issues, please contact customer support.

8. Specifications

Feature	Detail
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Feature	Detail
Brand Name	Zamp Solar
Model Number	ZMPUSP2001
Power Output	45 Watts
Included Components	Obsidian Series 45WATT Portable Power Kit Regulated
Charge Type	Regulated (prevents overcharging)
Application	Portable, Off-Grid, RV, Camping

9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or visit the official Zamp Solar website. Keep your proof of purchase for warranty claims.

If you require technical assistance or have questions regarding the operation or maintenance of your Zamp Solarr Obsidian Series 45WATT Portable Power Kit, please contact Zamp Solar customer service.