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› ZAMP SOLAR Portable Solar Kit USP1016 User Manual

Zamp solar USP1016

ZAMP SOLAR Portable Solar Kit

MODEL: USP1016 - 190 WATT MONOCRYSTALLINE PANEL

Introduction

This manual provides essential instructions for the safe and efficient use of your ZAMP SOLAR Portable Solar Kit, Model USP1016. This 190-watt monocrystalline solar panel system is designed to provide reliable power for various outdoor and mobile applications, featuring a compact, foldable design and an integrated 15-amp 5-stage charge controller.

Safety Information

- Always handle the solar panel with care to avoid damage to the glass or frame.
- Ensure all electrical connections are secure and free from corrosion.
- Do not attempt to disassemble or modify the solar panel or charge controller. Refer servicing to qualified personnel.
- Avoid touching exposed wires or terminals when the panel is exposed to sunlight, as it can generate electricity.
- Keep the solar panel away from flammable materials and sources of ignition.
- Ensure proper ventilation around the charge controller during operation.

Package Contents

Verify that all components are present and undamaged upon unpacking:

- 190-watt Monocrystalline Portable Solar Panel (with integrated 15-amp 5-stage charge controller)
- Connecting Wires (for battery connection)
- Adjustable Support Legs (integrated)
- Built-in Carrying Handle



Image: The ZAMP SOLAR 190 Watt Portable Solar Kit shown in its folded, compact configuration, ready for transport or storage.

Setup Instructions

1. **Unfold the Panel:** Carefully unfold the solar panel sections until they are fully extended.
2. **Position the Support Legs:** Extend the integrated adjustable support legs on the back of the panel. Adjust them to achieve the desired angle for optimal sun exposure.
3. **Connect to Battery:** Locate the connecting wires extending from the integrated charge controller. Connect these wires directly to your 12V battery terminals, ensuring correct polarity (red to positive, black to negative). The 15-amp 5-stage charge controller will automatically manage the charging process.
4. **Optimal Placement:** Place the solar panel in a location with direct, unobstructed sunlight. Avoid shaded areas, as even partial shading can significantly reduce power output.

Operating Instructions

- **Sunlight Exposure:** For maximum efficiency, ensure the panel is angled directly towards the sun. Adjust the panel's position periodically throughout the day as the sun moves.
- **Charge Controller Monitoring:** The integrated 15-amp 5-stage charge controller will display charging status and battery voltage. Refer to the controller's specific indicators for detailed information on battery charge level and system operation.
- **Battery Protection:** The 5-stage charge controller is designed to protect your battery from overcharging and deep

discharge, optimizing battery life.

- **Disconnecting:** When finished charging or storing the unit, disconnect the battery connections first, then fold the panel.

Maintenance

- **Cleaning:** Regularly clean the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris. Avoid abrasive cleaners or harsh chemicals that could scratch the surface.
- **Connection Checks:** Periodically inspect all electrical connections for tightness and signs of corrosion. Clean any corroded terminals.
- **Storage:** When not in use, fold the solar panel and store it in a dry, protected area. The compact design (39.5 x 22 x 3.1 inches when folded) facilitates easy storage.

Troubleshooting

Problem	Possible Cause	Solution
No power output / Battery not charging	No sunlight; Panel shaded; Loose or incorrect battery connections; Faulty charge controller.	Move panel to direct sunlight; Clear any obstructions; Check and secure all connections, ensuring correct polarity; Consult Zamp Solar support if controller appears faulty.
Low power output	Partial shading; Dirty panel surface; Incorrect panel angle; Weak sunlight (cloudy weather).	Reposition panel to avoid shade; Clean panel surface; Adjust panel angle for optimal sun exposure; Output will naturally be lower in cloudy conditions.
Charge controller error indicator	Battery over-voltage/under-voltage; Short circuit; Overload.	Refer to the charge controller's specific manual (if separate) for error codes; Check battery voltage; Inspect for short circuits in wiring; Reduce load if applicable.

Specifications

Feature	Detail
Model Number	USP1016
Maximum Power Output	190 Watts
Panel Type	Monocrystalline Silicon
Charge Controller	15 Amp, 5-Stage
Folded Dimensions (L x W x H)	39.5" x 22" x 3.1"
Item Weight	42 Pounds
Maximum Voltage	40 Volts
Upper Temperature Rating	185 Degrees Fahrenheit
Efficiency	High Efficiency

Warranty and Support

The ZAMP SOLAR Portable Solar Kit USP1016 comes with a standard manufacturer's warranty. For specific warranty details, claims, or technical support, please contact Zamp Solar directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.

For further assistance, visit the Zamp Solar website: www.zampsolar.com

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