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› SOLPERK 6V 1.7W Solar Panel Battery Charger for Deer Feeder - Model SO-WLQ-6V Instruction Manual

SOLPERK SO-WLQ-6V

SOLPERK 6V 1.7W Solar Panel Battery Charger

Model: SO-WLQ-6V

INTRODUCTION

The SOLPERK 6V 1.7W Solar Panel Battery Charger (Model SO-WLQ-6V) is designed to provide continuous power to 6V rechargeable batteries, particularly for outdoor applications like deer feeders. This manual provides instructions for proper installation, operation, and maintenance to ensure optimal performance and longevity of your solar panel.



Image: The SOLPERK 6V 1.7W Solar Panel mounted on a deer feeder, demonstrating its outdoor application in a winter setting.

PRODUCT FEATURES

- **Efficient Charging:** Utilizes single-crystal silicon technology for fast and efficient charging. A clear PC plastic cover enhances sunlight absorption. A built-in diode prevents reverse current discharge from the battery to the solar panel.

High Efficiency

Grade A+ Solar Cells

24%-30%

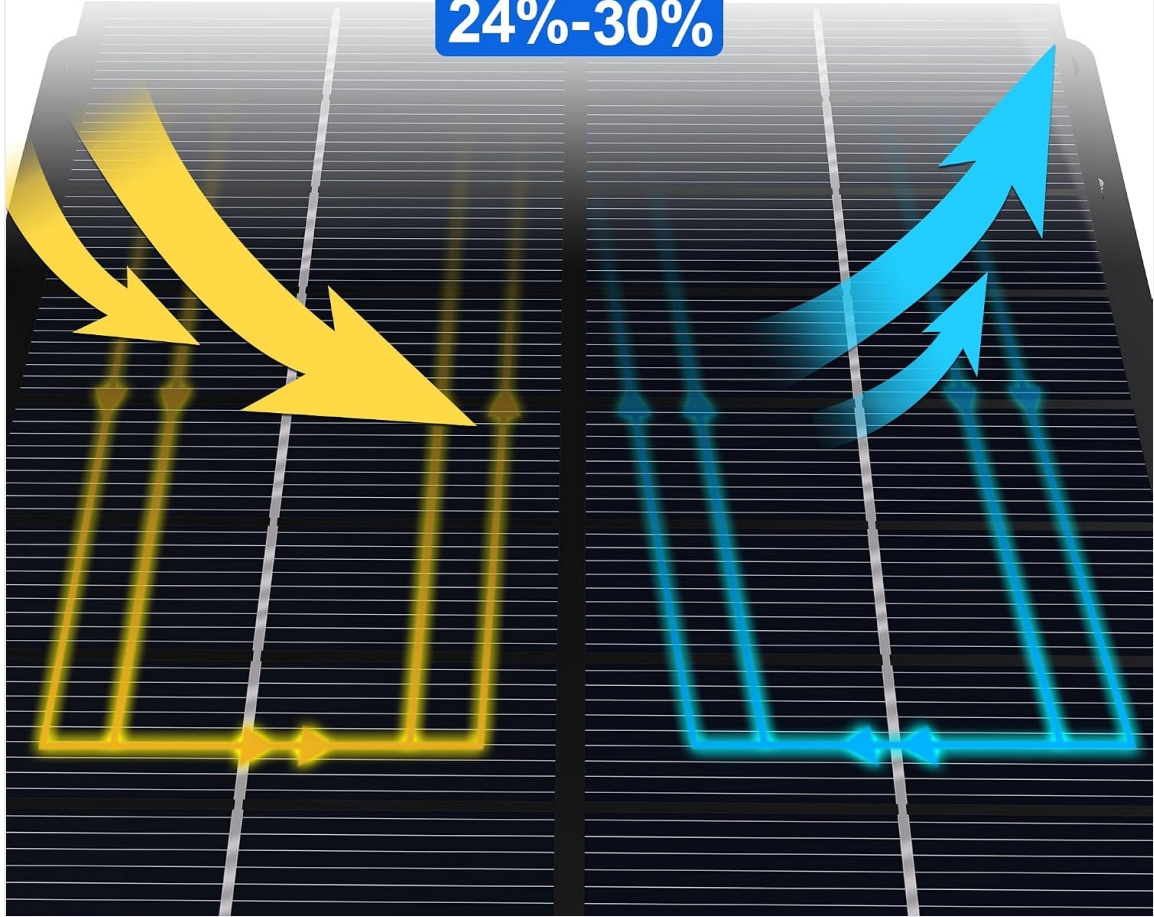


Image: A visual representation of high-efficiency solar cells, indicating a conversion rate of 24%-30%.

- **Durable Construction:** Features a robust PC plastic cover for weather resistance and protection. The mounting bracket is made of waterproof and rust-proof aluminum. The solar panel wire is protected by stainless steel tubing to prevent animal damage.

95% High Light Transmittance

Tough to prevent damage by animals

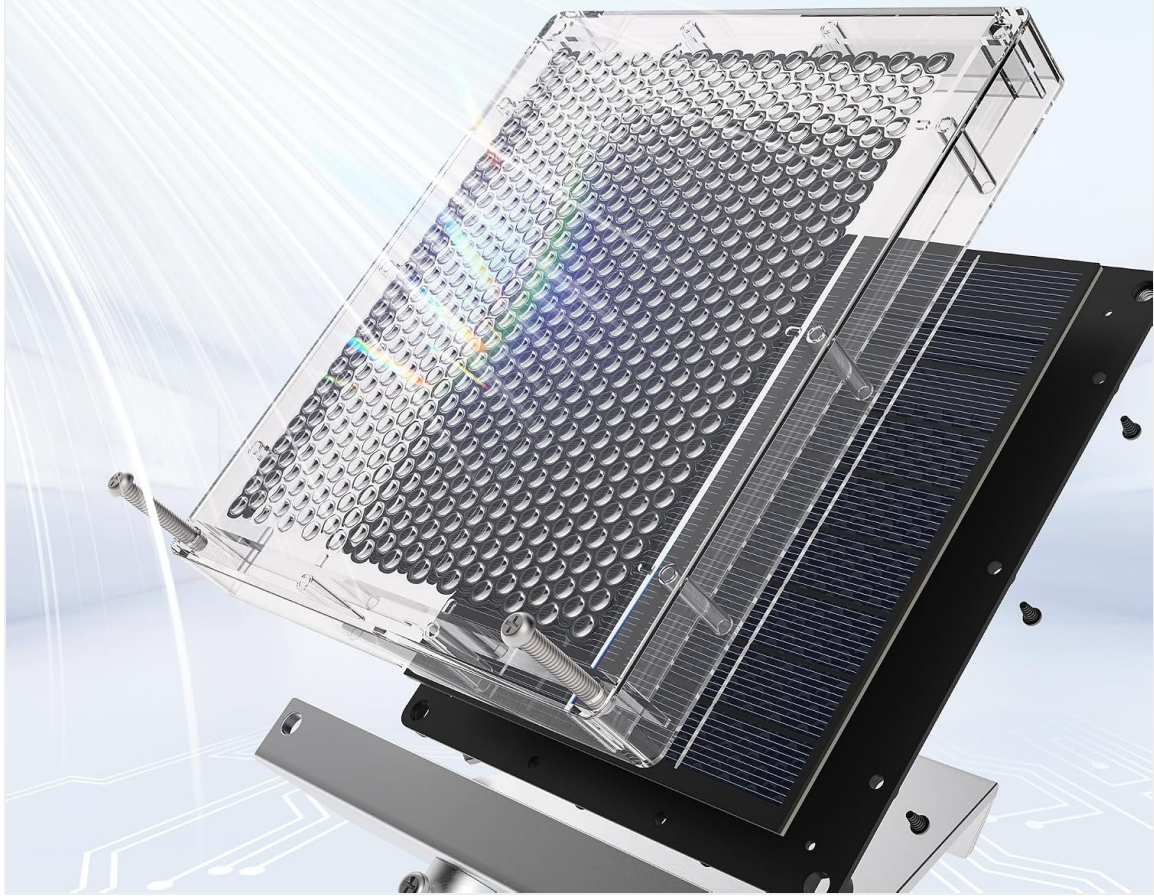


Image: An exploded view of the solar panel's components, emphasizing its 95% high light transmittance and durable design to prevent animal damage.

IP65 Waterproof Solar Panel



Image: The solar panel is shown under simulated rain, illustrating its IP65 waterproof rating in an outdoor setting.

WEATHER RESISTANT



Image: The solar panel is depicted enduring both hot (135°F) and cold (-15°F) conditions, highlighting its weather-resistant capabilities.

Stainless Steel Protective Flexible Tube



Waterproof



Rust-proof



**Hard to prevent
animals from chewing**



Image: A detailed view of the stainless steel protective flexible tube, emphasizing its waterproof, rust-proof, and animal-resistant features.

- **Easy Installation:** Designed with pre-drilled holes and includes necessary installation screws for straightforward setup.
- **Broad Compatibility:** Suitable for various 6V rechargeable batteries, ensuring year-round power supply.

PACKAGE CONTENTS

Please verify that all components are present in the package:

- 1 x SOLPERK 6V Solar Panel
- 1 x Mounting Stand
- 1 x Set of Installation Screws

SETUP INSTRUCTIONS

1. **Assemble Mounting Bracket:** Align the solar panel with the slot on the mounting bracket. Secure the solar panel to the bracket using the provided screws.
2. **Mount the Panel:** Firmly mount the assembled bracket and solar panel onto your device, such as a deer feeder, using the provided screws. Ensure the panel is positioned at an optimal angle to receive direct sunlight throughout the day.

45° Angle Tilt

Solar panels are tilted at a 45° to maximize sunlight reception.



Image: The solar panel is displayed with a 45-degree tilt, illustrating the recommended angle for maximizing sunlight reception.

3. **Connect to Battery:** Connect the alligator clips from the solar panel wire to your 6V rechargeable battery. Ensure correct polarity: the red clip connects to the positive (+) terminal, and the black clip connects to the negative (-) terminal.



Image: A visual guide demonstrating the four steps for installation: aligning the panel with the bracket, securing it with screws, mounting the assembly to a device, and connecting the alligator clips to a battery.

Important Note: Always face the solar panel towards the sun. Ensure there is no obstruction or shadow on the surface of the solar panel for maximum charging efficiency. Regularly wipe off any stains on the surface of the

solar panel.

OPERATING INSTRUCTIONS

Once installed and connected, the solar panel will automatically begin charging your 6V battery when exposed to sunlight. The built-in diode prevents overcharging and reverse discharge. A small red LED indicator on the side of the panel illuminates when it is actively charging.

Your browser does not support the video tag.

Video: An official SOLPERK video demonstrating the solar panel battery charger for deer feeders in action, showing its functionality and application.

MAINTENANCE

- **Regular Cleaning:** Periodically wipe off any dust, dirt, snow, or debris from the surface of the solar panel using a soft, damp cloth. A clean surface ensures maximum sunlight absorption and charging efficiency.
- **Inspect Connections:** Regularly check the battery clips and wire connections to ensure they are secure and free from corrosion.
- **Check for Obstructions:** Ensure no new obstructions (e.g., growing foliage, new structures) are casting shadows on the panel.

TROUBLESHOOTING

- **Panel Not Charging:**
 - Verify the solar panel is receiving direct sunlight and is not shaded.
 - Ensure the panel surface is clean.
 - Check that the alligator clips are securely connected to the correct battery terminals (red to positive, black to negative).
 - Confirm the battery is a 6V rechargeable type.
- **Low Charging Performance:**
 - Ensure the panel is angled optimally towards the sun.
 - Clean the panel surface thoroughly.
 - Check for any damage to the panel or wiring.

SPECIFICATIONS

Brand	SOLPERK
Model Number	SO-WLQ-6V
Material	PC Plastic, Aluminum
Maximum Voltage	6 volts
Maximum Power	1.7 watts
Output Voltage	6 volts
Efficiency	High Efficiency

Special Features	Waterproof
Connector Type	Battery Clips
Item Weight	0.51 kg

WARRANTY AND SUPPORT

SOLPERK is committed to customer satisfaction. If you encounter any issues or have questions regarding your solar panel battery charger, please feel free to contact SOLPERK customer service. We aim to resolve any concerns within 24 hours.