

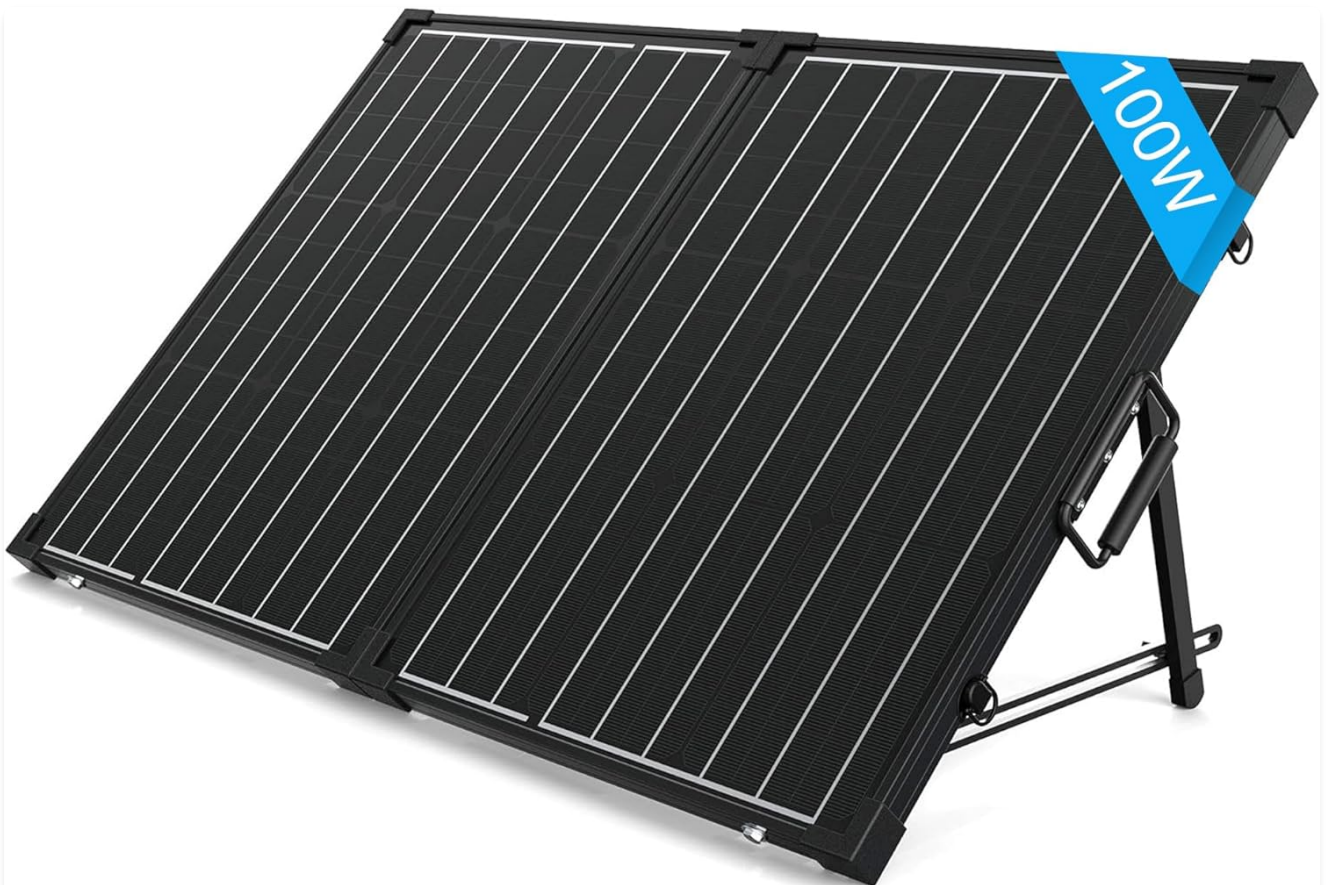
ACOPOWER HY-PTP-100W

ACOPOWER 100W Portable Solar Panel Kit User Manual

Model: HY-PTP-100W | Brand: ACOPOWER

1. INTRODUCTION

The ACOPOWER 100W Portable Solar Panel Kit is designed to provide a reliable and efficient power source for various off-grid applications. This kit features two 50-watt monocrystalline solar panels that fold into a compact, portable case, making it ideal for RVs, camping, marine use, and other outdoor activities. Its high conversion efficiency ensures optimal power generation from sunlight.



The ACOPOWER 100W Portable Solar Panel Kit in its deployed state, showcasing its compact and foldable design with an integrated kickstand for easy setup.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the solar panel kit. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Do not attempt to disassemble or modify the solar panel. Ensure all connections are secure and properly insulated to prevent short circuits. Avoid touching exposed wires or terminals.
- **Handling:** Handle the solar panel with care. Avoid dropping or subjecting it to strong impacts, which can damage the solar cells.
- **Placement:** Position the solar panel in a stable location where it will not be easily knocked over. Ensure adequate ventilation around the panel.
- **Environmental Conditions:** Do not immerse the solar panel in water. While designed for outdoor use, protect it from extreme weather conditions when not in use.
- **Children and Pets:** Keep the solar panel out of reach of children and pets to prevent accidental damage or injury.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x ACOPOWER 100W Portable Solar Panel (consisting of two 50W panels)
- Integrated Kickstand
- Connection Cables (with Anderson connector and alligator clips)
- Carrying Case



The durable carrying case for the ACOPOWER 100W Portable Solar Panel Kit, featuring the brand logo and contact information.

4. SETUP

Follow these steps to set up your ACOPOWER 100W Portable Solar Panel Kit:

1. **Unfold the Panel:** Carefully unfold the two solar panels.
2. **Deploy the Kickstand:** Extend the integrated kickstand at the back of the panel to support it.
3. **Adjust Angle:** Position the panel to face the sun directly for maximum efficiency. The kickstand allows for flexible angle adjustments. For optimal performance, adjust the angle based on the season: Summer (Latitude -15°), Fall and Spring (at Latitude), Winter (Latitude +15°).
4. **Connect to Device:** Use the provided connection cables to link the solar panel to your compatible solar generator, battery, or other devices. The kit includes an Anderson connector and alligator clips for versatile connections.



Illustration demonstrating how to flexibly adjust the angles of the solar panel using its corrosion-resistant aluminum alloy kickstand for efficient sunlight conversion across different seasons.

WIDELY APPLICABLE



Diagram showing the various connection options for the solar panel, including alligator clips for direct battery connection, an Anderson connector for RVs or power stations, and a standard solar connector for other solar-compatible devices.

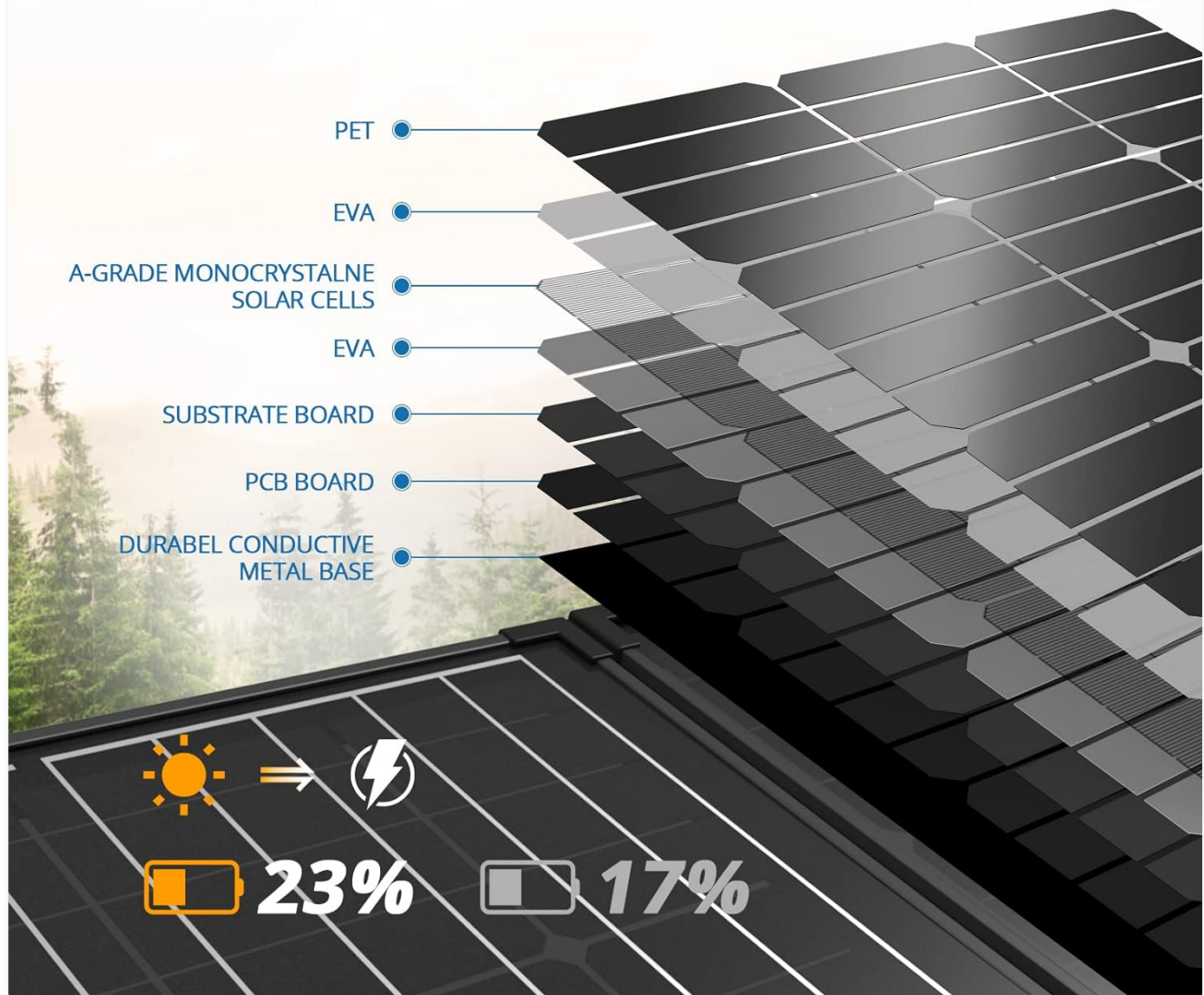
5. OPERATING INSTRUCTIONS

Once set up, the ACOPOWER 100W Portable Solar Panel will begin converting sunlight into electrical energy. The panel is designed for high conversion efficiency, up to 23%, ensuring effective power generation even in varying light conditions.

- **Optimal Sunlight:** For best performance, ensure the panel is in direct sunlight and not shaded by trees, buildings, or other obstructions.
- **Monitoring:** If connected to a charge controller (sold separately or integrated into your power station), monitor the charging status and battery voltage.
- **Applications:** This portable solar panel is suitable for powering a solar generator, charging 12V batteries, or directly powering compatible DC devices. It is widely applicable for RVs, marine vessels, camping, and general travel needs.

HIGH CONVERSION EFFICIENCY

UP TO 23%



Collage illustrating the diverse applications of the ACOPOWER portable solar panel, including use with RVs, marine vehicles, during camping trips, and for general travel.



Detailed diagram showcasing the high conversion efficiency of the solar panel, highlighting its layered construction from PET to the conductive metal base, and indicating up to 23% power conversion.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your solar panel kit:

- **Cleaning:** Periodically clean the surface of the solar panels with a soft, damp cloth to remove dust, dirt, and debris. Avoid abrasive cleaners or harsh chemicals.
- **Inspection:** Regularly inspect the cables and connectors for any signs of wear, damage, or corrosion. Ensure all connections remain tight and secure.
- **Storage:** When not in use, fold the solar panel and store it in its carrying case in a dry, cool place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power output	Insufficient sunlight; Panel shaded; Loose connections; Damaged panel/cable.	Relocate panel to direct sunlight; Remove obstructions; Check and secure all connections; Inspect panel and cables for damage.
Low power output	Partial shading; Dirty panel surface; Incorrect angle; Overcast weather.	Ensure full sun exposure; Clean panel surface; Adjust panel angle for optimal sun alignment; Output will naturally be lower in cloudy conditions.
Device not charging	Incompatible device; Device's battery full; Charge controller issue (if applicable).	Verify device compatibility; Check device's battery status; Consult charge controller manual or contact support.

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

8. SPECIFICATIONS

Feature	Detail
Brand	ACOPOWER
Model Number	HY-PTP-100W
Maximum Power	100 Watts
Maximum Voltage	12 Volts
Efficiency	High Efficiency (up to 23%)
Material	Monocrystalline Silicon
Item Weight	23 Pounds
Product Dimensions (folded)	22 x 21.5 x 2.36 inches
Color	Black
Connector Type	USB (Note: Primary connections are Anderson/Alligator clips, USB may refer to a general charging capability or a specific port if present on a controller)

9. WARRANTY AND SUPPORT

ACOPOWER is a California, USA-based company with over 11 years of experience in the solar industry. We are committed to providing reliable products and excellent customer service.

- **Warranty:** This product comes with a manufacturer's warranty. Please refer to the official ACOPOWER website or your purchase documentation for specific warranty terms and conditions.
- **Technical Support:** ACOPOWER offers 24/7 free technical support service.
- **Customer Service:** We are dedicated to 100% customer satisfaction. For any inquiries, issues, or support needs, please contact us directly.
- **User Guide (PDF):** A detailed user guide in PDF format is available for download at:
<https://manuals.plus/m/a6165943ca24cff0ce73aedc6055cb890e91d7e8b15385b69e074f26c7e0569b>