

Ecosonique Technology 15

Ecosonique 100W Portable Foldable Solar Panel User Manual

Model: 15

1. INTRODUCTION

The Ecosonique 100W Portable Foldable Solar Panel is designed to provide a reliable and efficient power source for your electronic devices in outdoor environments. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your solar panel.

2. SAFETY INFORMATION

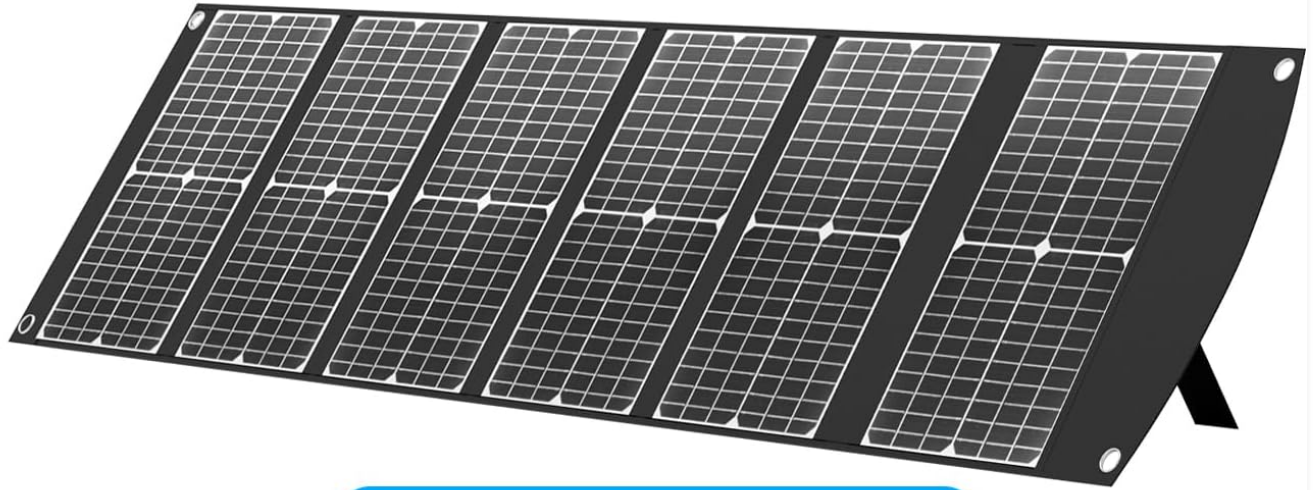
- Do not attempt to disassemble, modify, or repair the solar panel. This may cause damage and void the warranty.
- Avoid exposing the solar panel to extreme temperatures, open flames, or corrosive substances.
- Ensure all connections are secure before use. Loose connections can lead to power loss or damage.
- Keep the solar panel away from children and pets.
- Do not step on or place heavy objects on the solar panel.
- While the panel is water-resistant, avoid submerging it in water.
- Always check the voltage and current limits of your devices before connecting them to the solar panel to prevent damage.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Ecosonique 100W Portable Solar Panel
- 1 x 3m DC5521 Male to Male Cable
- 1 x 0.5m DC5521 to XT60 & Anderson Cable
- 3 x DC Connectors (DC7909, DC5525, DC35135)
- 1 x User Manual

Included in Your Purchase



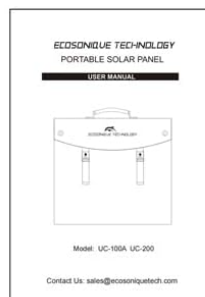
100W Portable Solar Panel x 1



DC5521 to Andson/XT60 Cable x 1



DC Connectors x 3



User Manual x 1

Image: All components included in the purchase, such as the solar panel, various cables, DC connectors, and the user manual.

4. PRODUCT FEATURES

- **Lightweight and Portable:** Weighs approximately 2.72 kg (6 lbs) and folds to 40 x 26.7 cm for easy transport.
- **High Conversion Efficiency:** Achieves up to 23.5% conversion efficiency for optimal sunlight utilization.
- **Wide Compatibility:** Features QC3.0 USB-A (max 24W), PD3.0 USB-C (max 45W), and 20V DC output ports. Includes multiple DC connectors and cables for various devices and power stations.
- **Stable Design:** Equipped with 4 integrated kickstands for quick setup and stable positioning.
- **Safe and Durable:** Intelligent chip technology protects against overcurrent, overvoltage, and short circuits. Constructed with waterproof Oxford fabric and PET lamination for dust and water resistance.
- **Automatic Restart Function:** Adapts quickly to changing light conditions without manual adjustment.



Image: The Ecosonique solar panel's compact folded size and lightweight design, highlighting its portability for outdoor activities.

5. SETUP

1. **Unfold the Panel:** Carefully unfold the solar panel completely.
2. **Position the Panel:** Place the solar panel in direct sunlight. For optimal performance, ensure the panel is angled directly towards the sun.
3. **Deploy Kickstands:** Extend the integrated kickstands on the back of the panel to support it at an optimal angle for maximum sun exposure and stability.
4. **Secure (Optional):** If windy or for long-term placement, use the integrated eyelets to secure the panel to a tent, caravan, or other stable structure.

Fast Charging Protocols

QC3.0、PD 45W

USB-A	
5V/3.4A,9V/2.5A,12V/2A±5%	
Apple	2.4A
SamSung	5V/2A
QC3.0	3.6V~12.6V
Samsung AFC	9V-12V

USB-C	
5V/3A,9V/3A,12V/3A,15V/3A±5%	
Apple	2.4A
SamSung	5V/2A
QC3.0	3.6V~16.2V
Samsung AFC	9V-12V-24W
PD3.0	45W

DC Output: 20V/5A(Max)



Image: The solar panel deployed with its kickstands, demonstrating its high efficiency and stable setup in an outdoor environment.

6. OPERATING INSTRUCTIONS

The Ecosonique 100W solar panel offers multiple output ports for versatile charging.

6.1 Connecting Devices

- **USB-A Output:** Connect your smartphone, tablet, or other USB-A compatible devices using a standard USB cable. Supports QC3.0 fast charging up to 24W.
- **USB-C Output:** Connect USB-C compatible devices, including laptops, tablets, and smartphones. Supports PD3.0 fast charging up to 45W.
- **DC Output (20V):** Use the provided DC5521 cable and various DC connectors (DC7909, DC5525, DC35135) to connect to compatible power stations, solar generators, or battery packs. The included XT60 and Anderson cables provide additional compatibility.

Wide Compatibility

Designed for versatile use with power stations and USB devices

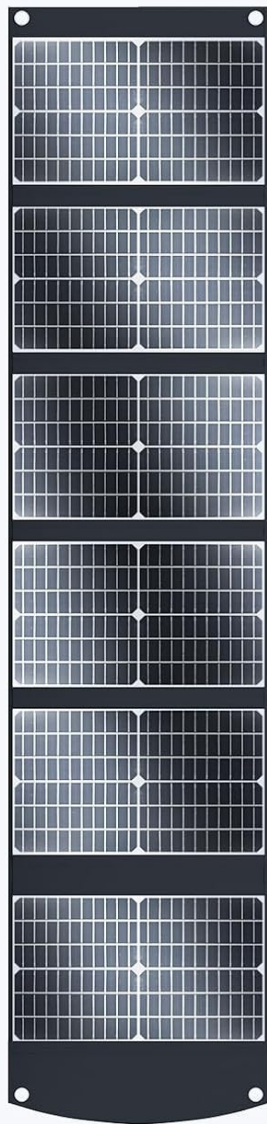


Image: Diagram illustrating the wide range of compatibility with different connectors (USB-A, USB-C, Anderson, XT60, DC5521, DC5525, DC7909, DC35135) and various power stations.

6.2 Charging Protocols

The panel automatically detects and delivers the optimal charging protocol for your connected devices.

- **USB-A:** Supports Apple 2.4A, Samsung 5V/2A, QC3.0 (3.6V~12.6V), Samsung AFC (9V-12V).
- **USB-C:** Supports Apple 2.4A, Samsung 5V/2A, QC3.0 (3.6V~16.2V), Samsung AFC (9V-12V-24W), PD3.0 (45W).
- **DC Output:** 20V/5A (Max).

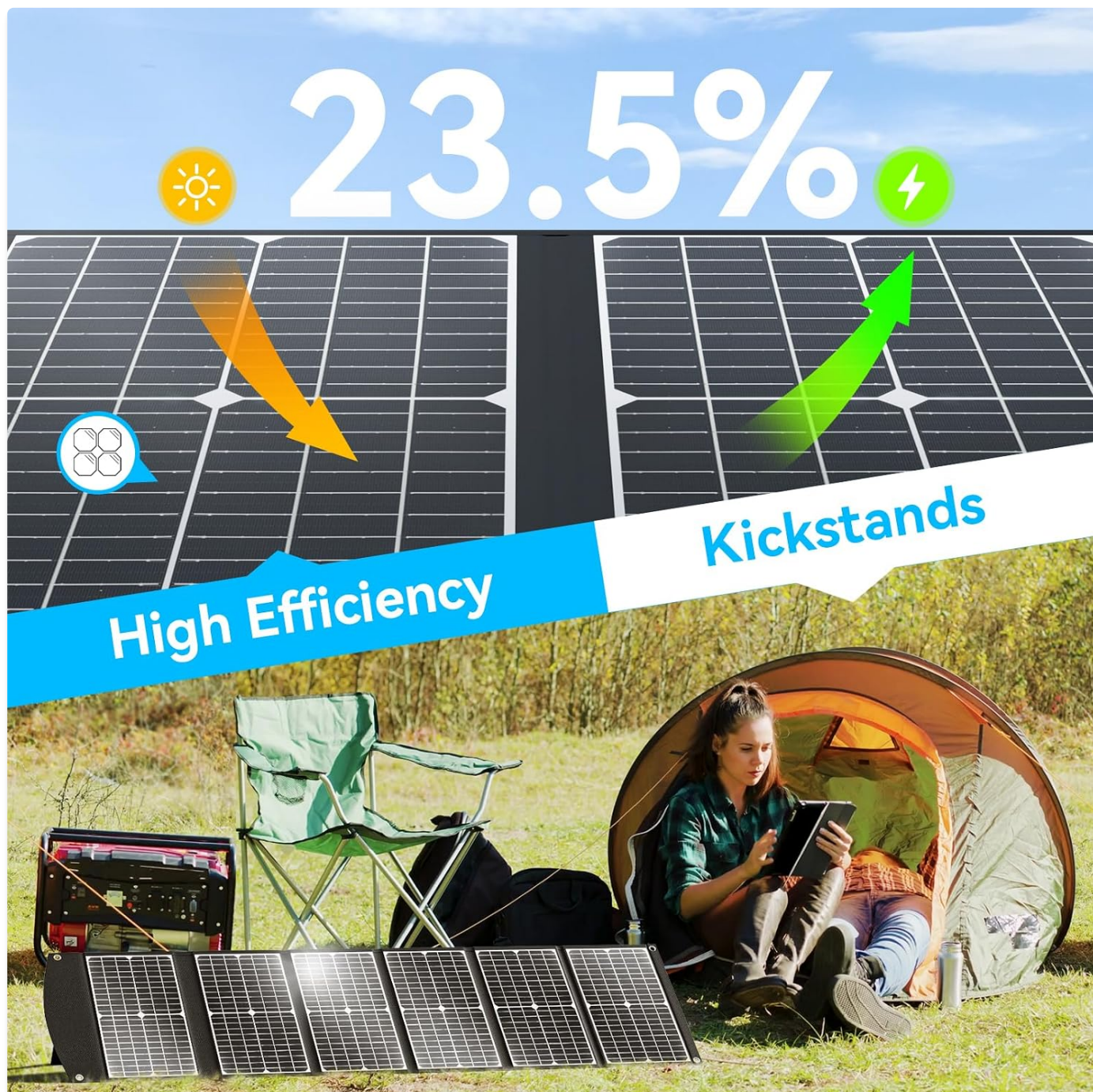
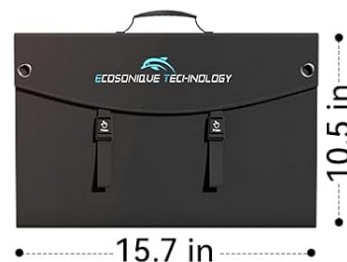


Image: Detailed breakdown of fast charging protocols supported by the USB-A, USB-C, and DC output ports, including voltage and amperage ranges.

Extremely Lightweight and Compact

Portable & Folding design



Weight: 2.7 KG/6 LB

Ecosonique

VS



Weight: 4.3 KG/9.8 LB

Other



Image: The control panel of the solar charger showing the DC, USB-C, and USB-A outputs, with devices like a tablet and smartphone connected and charging simultaneously.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid abrasive cleaners or harsh chemicals.
- **Storage:** When not in use, fold the solar panel and store it in a cool, dry place away from direct sunlight and moisture.
- **Inspection:** Periodically check cables and connectors for any signs of wear or damage. Replace damaged components immediately.

8. TROUBLESHOOTING

- **No Charging/Slow Charging:**
 - Ensure the solar panel is in direct sunlight and not obstructed by shadows.

- Adjust the panel's angle to face the sun directly.
 - Check all cable connections to ensure they are secure.
 - Verify that your device's charging input requirements match the panel's output specifications.
 - Clean the panel surface if it is dirty.
- **Intermittent Charging:**
 - This can occur due to fluctuating sunlight (e.g., passing clouds). The automatic restart function should manage this, but consistent interruptions may indicate a positioning issue or a heavily clouded sky.
 - Ensure the connected device is not drawing more power than the panel can consistently supply under current conditions.
 - **Device Not Recognized:**
 - Try a different cable or port.
 - Ensure the device is compatible with the charging port (e.g., USB-C device on USB-C port).

9. SPECIFICATIONS

Item Model Number	15
Maximum Power	100 Watt
Efficiency	23.5%
Product Dimensions (Folded)	40 x 26.7 cm (approx. 15.7 x 10.5 inches)
Product Dimensions (Unfolded)	Approx. 10L x 2.9W x 15H cm (This seems to be a misinterpretation of the original data, likely referring to a component. The folded/unfolded dimensions are better derived from feature bullets and images.)
Item Weight	2.85 Kilograms (approx. 6 lbs)
Material	Glass, Aluminum (referring to panel cells and frame), Oxford fabric, PET lamination
USB-A Output	QC3.0 (Max 24W)
USB-C Output	PD3.0 (Max 45W)
DC Output	20V / 5A (Max)
Connector Type	DC5521, XT-60, Anderson Powerpole
Special Features	Flexible, Portable, Waterproof, Dust-resistant, Kickstands
Manufacturer	Shenzhen Sola-E Technology Co., Ltd
Country of Origin	China

10. WARRANTY AND SUPPORT

The Ecosonique 100W Portable Foldable Solar Panel comes with a **12-month warranty** from the date of purchase. If you encounter any issues with your product or require technical assistance, please contact our customer support team. We are committed to responding to all inquiries within 24 hours. For support, please refer to the contact information provided in your purchase documentation or on the official Ecosonique Technology website.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question