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› [Egretech](#) /

› [Egretech PSP Sonic 100W Portable Solar Panel User Manual](#)

Egretech PSP Sonic 100W

Egretech PSP Sonic 100W Portable Solar Panel User Manual

Model: PSP Sonic 100W

1. INTRODUCTION

Thank you for choosing the Egretech PSP Sonic 100W Portable Solar Panel. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your solar panel. Please read this manual thoroughly before using the product and retain it for future reference.

The Egretech PSP Sonic 100W is a highly efficient, foldable solar panel designed for portable power generation. It is ideal for outdoor activities such as camping, hiking, RV travel, and as a reliable backup power source for various portable power stations.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Egretech 100W Solar Panel with Kickstand Case
- 1 x MC-4 to Anderson/XT60/DC5.5x2.1mm Cable
- 1 x User Manual



Image: The Egrettech PSP Sonic 100W Portable Solar Panel shown folded with its various connection cables.

3. KEY FEATURES

- **Portable & Foldable Design:** Consists of 6 panels, folding into a compact briefcase size (19.8in x 11.1in x 2.8in) for easy transport and storage. Weighs approximately 11.90 lbs.

FEATHERWEIGHT PORTABLE SOLAR PANEL

Innovative Integral Forming Process

 **11.90lbs**



Image: A person easily carrying the lightweight, folded Egrettech solar panel, highlighting its portability.

- **Waterproof & Durable:** Features an IP65 waterproof rating and ETFE film on panels for protection against scratches, UV light, and inclement weather, extending lifespan.

WATERPROOF AND DUSTPROOF

Adopts IP65 waterproof & dustproof technology

Complies with IEC 60529 standard

Do not immerse in water

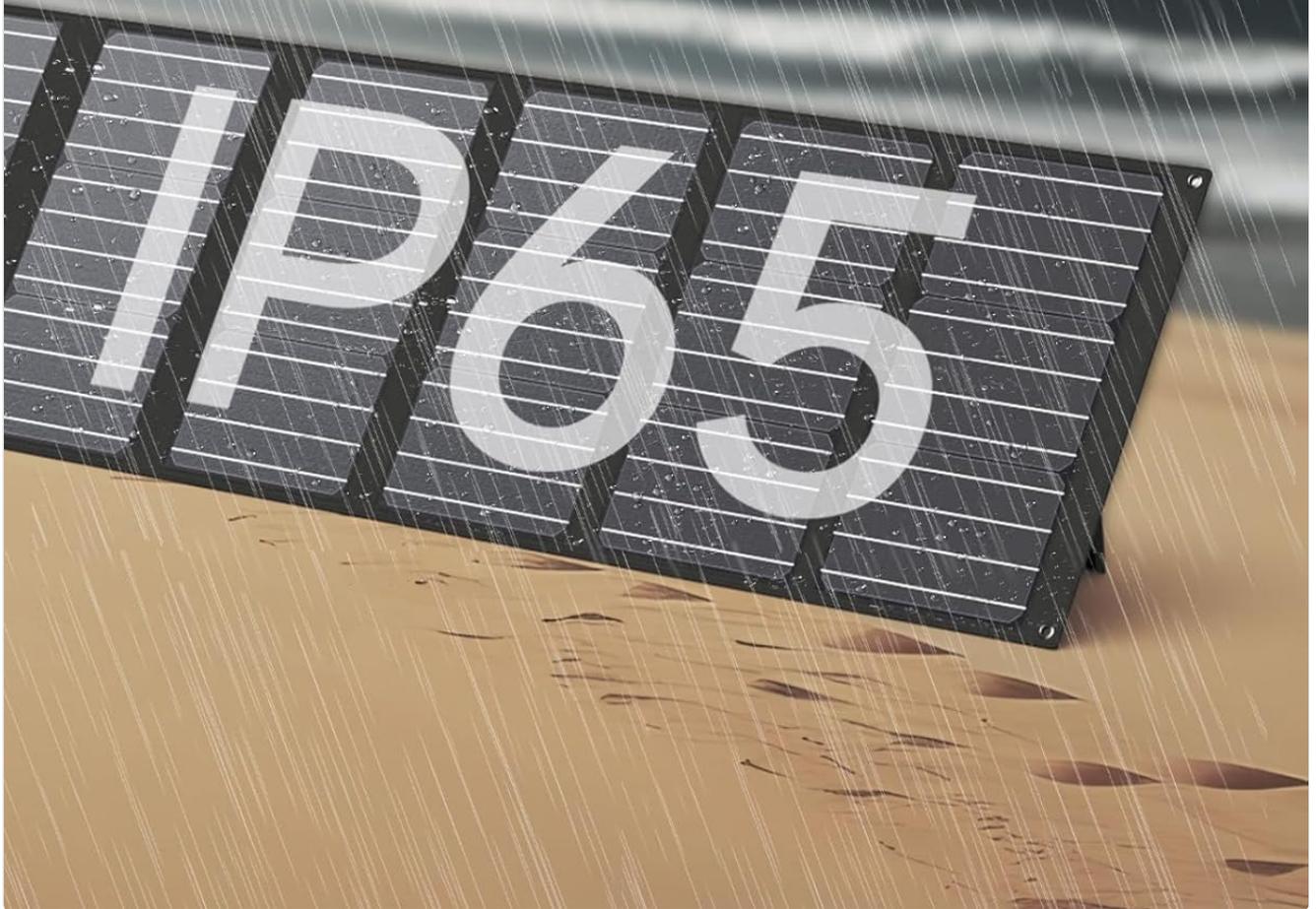


Image: The Egrettech solar panel with an IP65 rating, shown with water droplets, indicating its waterproof and dustproof capabilities.

- **High Efficiency:** Max output power of 100 watts with high-performance monocrystalline silicon solar cells, achieving up to 23% conversion rate for faster charging.

SOLAR PANEL WITH 100W OUTPUT



Operating Voltage
17.5V



Conversion Efficiency
23%



Power Output
100W



Image: The Egrettech solar panel laid out on grass, displaying its operating voltage, conversion efficiency, and power output.

- **Wide Compatibility:** Equipped with MC-4 to DC5.5mm*2.1mm, XT60, and Anderson connectors, making it compatible with most portable power stations.

WIDE COMPATIBILITY

3 Types of Plugs

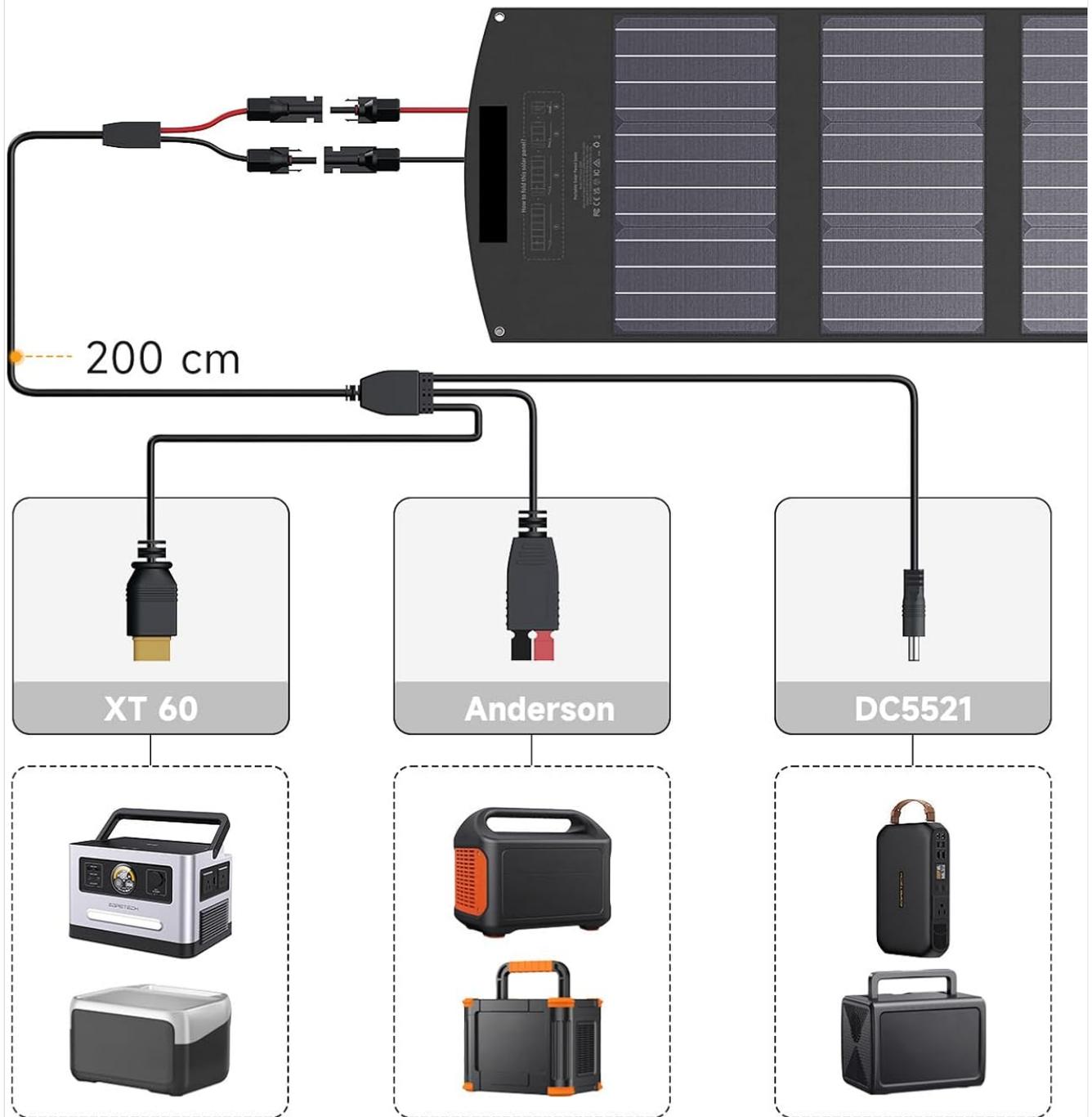


Image: A diagram illustrating the wide compatibility of the Egrettech solar panel with different plug types (XT60, Anderson, DC5521) and compatible power stations.

- **Adjustable Kickstands:** Features 4 adjustable kickstands for optimal angling towards the sun, maximizing power output.

BETTER KICKSTANDS SOLUTION

Integrated Design, More stable

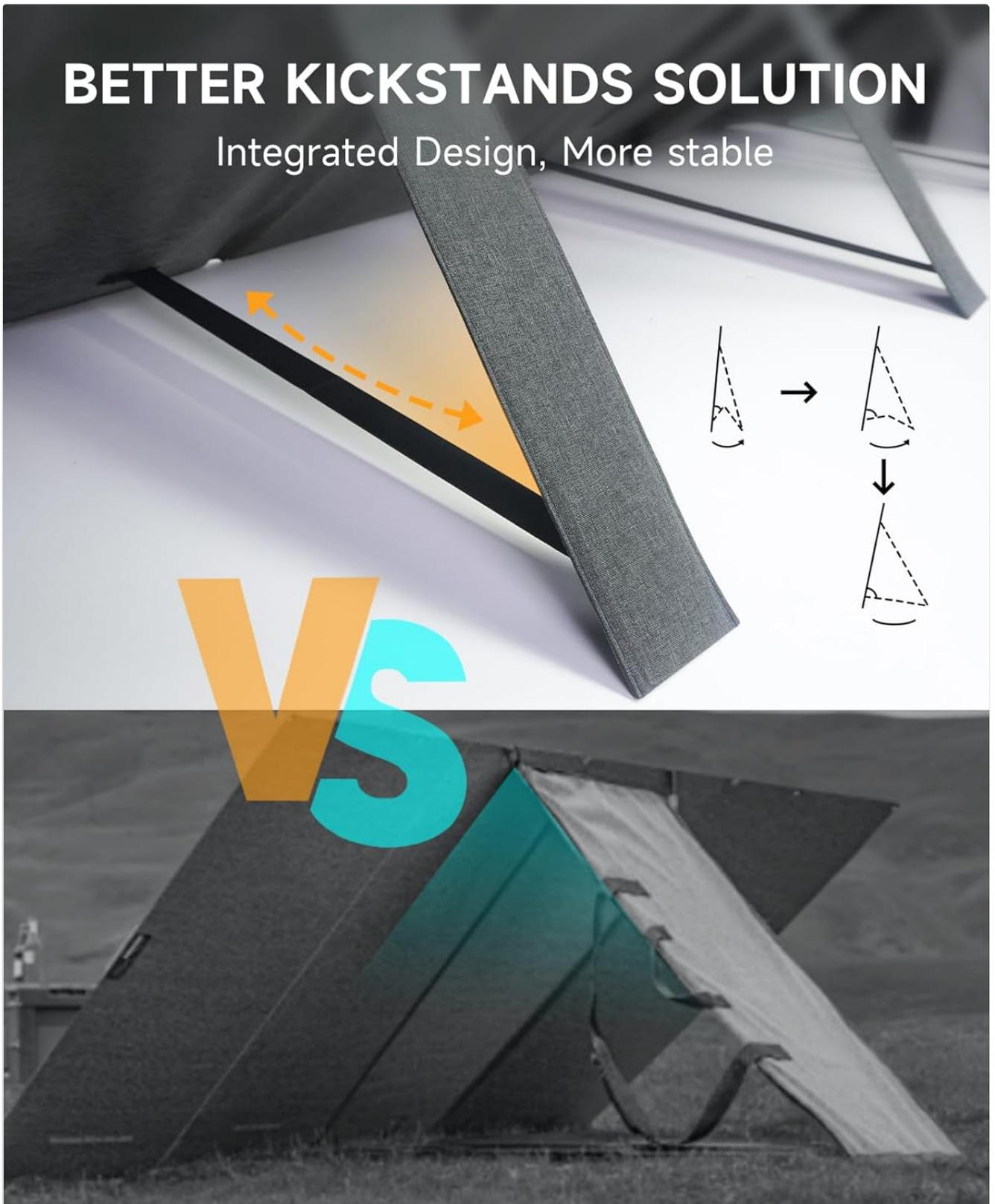


Image: A close-up view of the integrated kickstand design, showing how it provides more stability compared to traditional designs.

4. SETUP INSTRUCTIONS

1. **Unfold the Solar Panel:** Carefully unfold the Egretch PSP Sonic 100W solar panel completely.

EFFORTLESS STORAGE BEYOND YOUR IMAGINATION

No extra bags required

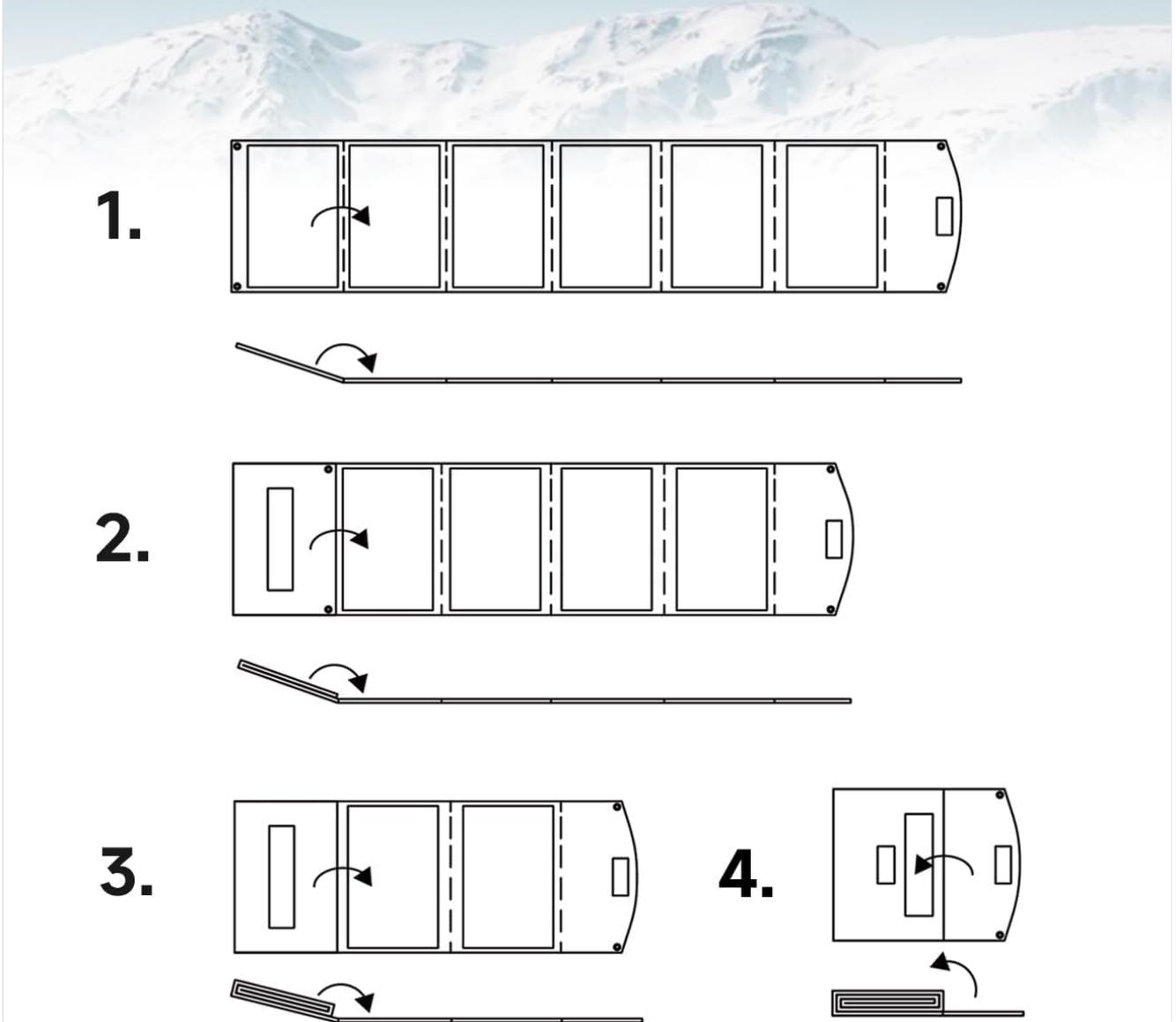


Image: A step-by-step diagram illustrating the effortless folding and unfolding process of the solar panel for storage and deployment.

- 2. Position the Kickstands:** Extend the integrated kickstands on the back of the panel. Adjust them to an angle that allows the panels to face the sun directly for maximum efficiency. Angles between 40° and 60° are generally optimal depending on the sun's position.

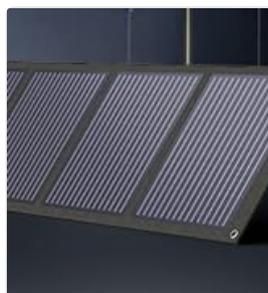


Image: Illustrations demonstrating the adjustable kickstands, allowing the solar panel to be angled at 40° , 50° , and 60° for optimal sunlight absorption.

3. Connect to Power Station:

- Take out the attached MC-4 cable.
- Connect the MC-4 port to the MC-4 connector of the PSP 100W.
- Connect the appropriate DC port (DC5521, XT60, or Anderson) to the DC input port of your power station.



Image: A four-step visual guide demonstrating how to connect the solar panel to a power station using the MC-4 cable and various DC adapters.

5. OPERATING INSTRUCTIONS

Once connected, the solar panel will begin charging your power station automatically, provided there is sufficient sunlight. The charging speed will vary based on sunlight intensity, angle of the panel, and the power station's input capacity.

- **Optimal Sunlight Exposure:** Ensure the solar panel is placed in direct sunlight, free from shadows from trees, buildings, or other obstructions.
- **Angle Adjustment:** Periodically adjust the kickstands to maintain the optimal angle towards the sun as it moves across the sky.
- **Monitoring Charging:** Refer to your power station's display to monitor the charging status and input wattage.



Image: A collage showing the Egrettech solar panel being used in different outdoor scenarios, including camping, hiking, fishing, and RV travel.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris. Avoid using abrasive materials or harsh chemicals that could scratch the ETFE film.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures. The integrated kickstand case provides convenient storage.
- **Inspection:** Periodically inspect the cables and connectors for any signs of wear, damage, or corrosion. Ensure connections are secure before each use.
- **Water Exposure:** While the panel is IP65 waterproof, do not immerse it in water. Ensure connectors are dry before making connections.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output / Low power output	Insufficient sunlight (cloudy, shaded) Incorrect panel angle Loose or incorrect cable connection Dirty panel surface Power station input limit	Move panel to direct sunlight. Adjust kickstands for optimal angle. Check all cable connections; ensure they are secure and correct. Clean the panel surface. Verify your power station's maximum solar input.
Panel not folding correctly	Obstruction or improper alignment.	Ensure no debris is caught in the folds and align panels carefully as per folding instructions.
Connectors do not fit	Incompatible power station or incorrect adapter.	Ensure your power station is compatible with MC-4, XT60, Anderson, or DC5521 inputs. Use the correct adapter provided.

8. SPECIFICATIONS

Attribute	Value
Brand	Egretech
Model	PSP Sonic 100W
Material	Monocrystalline Silicon
Maximum Power	100 Watts
Maximum Voltage (DC)	17.5 Volts
Efficiency	Up to 23%
Product Dimensions (Unfolded)	78.74"L x 11.1"W x 2.8"H
Folded Size	19.8"L x 11.1"W x 2.8"H
Item Weight	12.1 Pounds (approx. 5.49 kg)
Waterproof Rating	IP65
Connector Type	MC-4 to Anderson/XT60/DC5521

9. WARRANTY AND SUPPORT

Egretech Official offers a **24-month warranty** for all products. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical assistance, please contact Egretech customer service.

Egretech is committed to providing high-quality customer service, including Q&A, consultation, repair and return services, and technical support.

For further assistance, please visit the official Egretech store or contact their support channels:

- [Egretech Official Store on Amazon](#)

