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> [EBL 200W Portable Solar Panel User Manual](#)

## EBL ESP-200

# EBL 200W Portable Solar Panel User Manual

Model: ESP-200

Brand: EBL

## INTRODUCTION

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This user manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your EBL 200W Portable Solar Panel. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

## SAFETY INFORMATION

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- Do not attempt to disassemble, repair, or modify the solar panel. Unauthorized modifications can lead to damage, electric shock, or fire.
- Keep the solar panel away from fire, water, and corrosive substances.
- Avoid dropping or subjecting the solar panel to strong impacts.
- Ensure proper ventilation when operating the solar panel, especially when connected to a power station.
- Do not touch the solar panel with wet hands.
- Keep out of reach of children.
- Always use the provided cables and connectors or compatible accessories.

## PACKAGE CONTENTS

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- 1 × EBL 200W Foldable Solar Panel
- 1 × MC-4 to 4-in-1 Solar Charge Cable (XT60 / Anderson Connector / DC79\*09mm Connector / Aviation Connector)
- 1 × User Manual

## PRODUCT FEATURES

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- **High Cell Efficiency:** Up to 23.5% conversion rate with monocrystalline silicon solar cells.
- **Upgraded PET Lamination Technology:** Durable and wear-resistant design with waterproof protection.

- **Wide Range of Compatibility:** Includes MC-4 to 4-in-1 solar charge cable for compatibility with various solar generators (Jackery, BLUETTI, Anker, EF ECOFLOW, and EBL power stations).
- **Foldable and Portable Design:** Compact folded size (25.31×20.87×2.17 IN) and lightweight (17.95 lbs) for easy transport.
- **Safety Certifications:** FCC, RoHS, EMC certified with short circuit and surge protection.

## SETUP INSTRUCTIONS

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### 1. Unfolding the Solar Panel

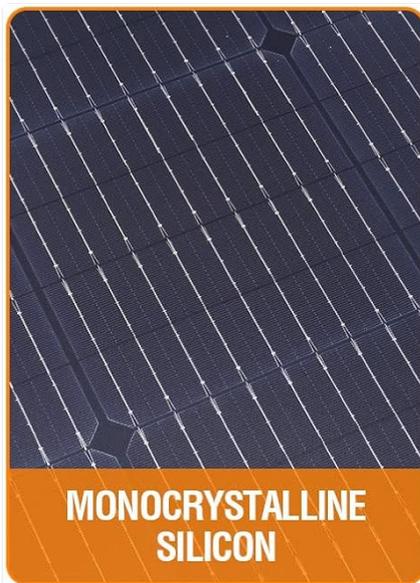
Carefully unfold the EBL 200W Portable Solar Panel on a flat surface. Ensure all four panels are fully extended to maximize sun exposure.



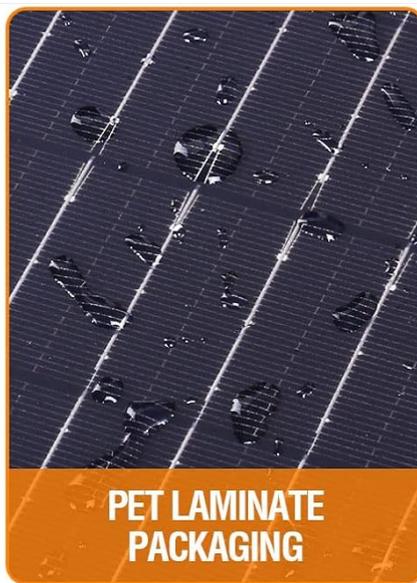
*Image: The EBL 200W Portable Solar Panel fully unfolded, showcasing its four solar panels and integrated kickstand.*

### 2. Positioning for Optimal Sunlight

Position the solar panel directly facing the sun. The integrated kickstand allows for easy adjustment to achieve the optimal angle (approximately 45 degrees) for maximum solar energy absorption. Avoid shaded areas, as even partial shading can significantly reduce efficiency.



**MONOCRYSTALLINE SILICON**



**PET LAMINATE PACKAGING**



**LARGE POCKET DESIGN**



**PCB BACKPLANE**



**HANGING HOLE DESIGN**



**BRACKET DESIGN**

*Image: A visual representation of the solar panel's unfolded dimensions (94.17 x 20.83 x 0.25 inches) and folded dimensions (25.31 x 20.87 x 2.17 inches), highlighting its portability.*

### 3. Connecting to a Power Station

Locate the MC-4 output connector on the solar panel. Use the provided MC-4 to 4-in-1 solar charge cable to connect the solar panel to your compatible power station. Select the appropriate adapter (XT60, Anderson, DC79\*09mm, or Aviation Connector) for your specific power station's input port.

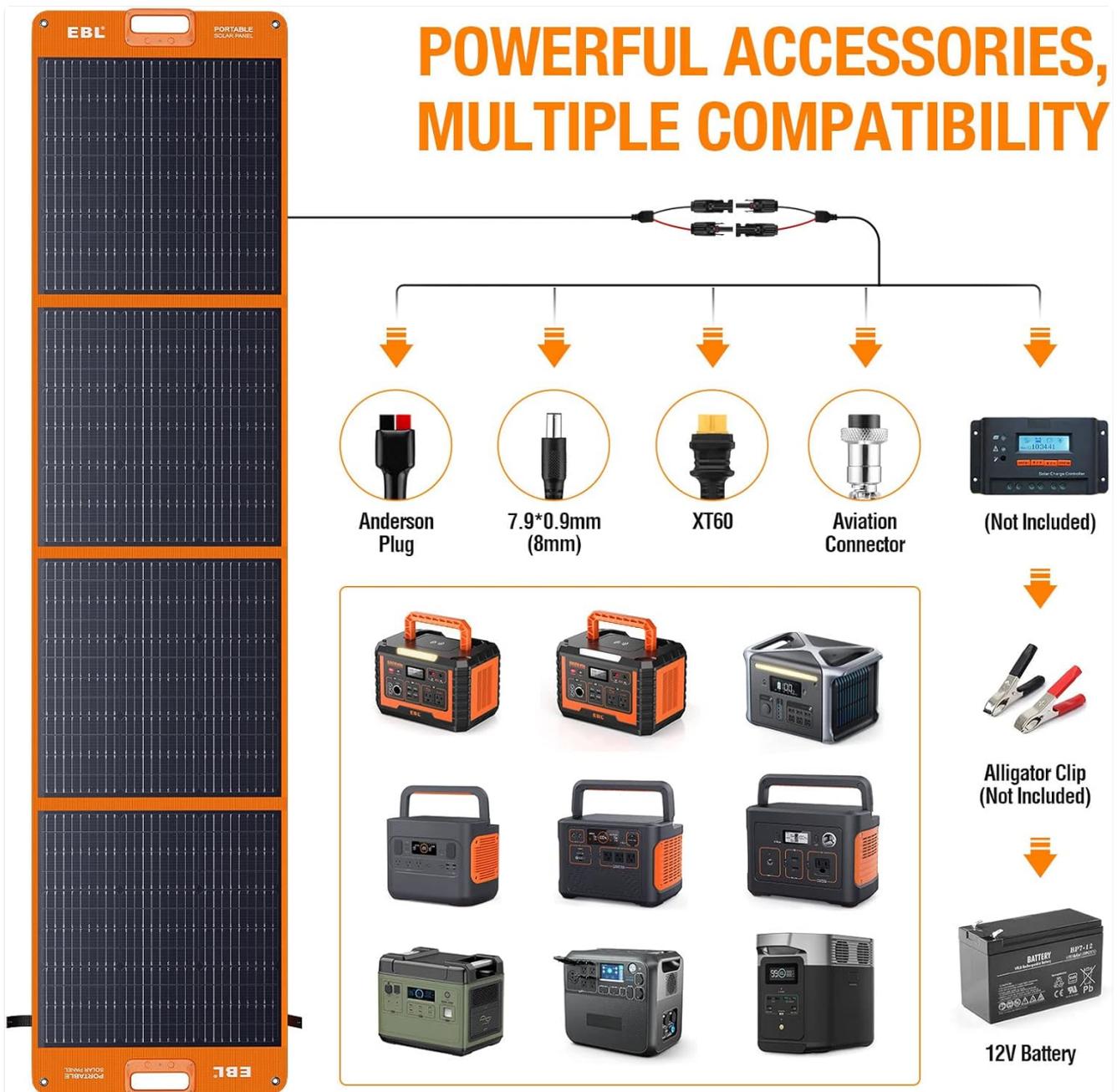


Image: The EBL 200W Portable Solar Panel connected via its 4-in-1 cable, illustrating compatibility with various power station brands and connector types.

## OPERATING INSTRUCTIONS

### 1. Initiating Charging

Once the solar panel is properly positioned and connected to your power station, the power station should automatically begin charging. Monitor the input wattage displayed on your power station to confirm charging is active and to assess efficiency.

### 2. Maximizing Efficiency

For best results, periodically adjust the angle of the solar panel throughout the day to follow the sun's path. This ensures continuous direct sunlight and maximizes power output. Clear any debris or dust from the panel surface.

### 3. Daisy-Chaining Panels (Optional)

If you have multiple EBL solar panels, they can be connected in series or parallel using appropriate Y-branch connectors (not included) to increase total power output for faster charging of larger power stations. Refer to your power station's manual for specific input voltage and current limits.

## MAINTENANCE

- **Cleaning:** Regularly wipe the surface of the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid using abrasive materials or harsh chemicals that could scratch the surface or damage the lamination.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures. Ensure it is clean and dry before storage.
- **Inspection:** Periodically inspect the cables and connectors for any signs of wear, damage, or corrosion. Replace any damaged components immediately.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from solar panel.	Insufficient sunlight or shading. Incorrect connection to power station. Damaged cable or connector. Overcast weather conditions.	Reposition the panel in direct sunlight, away from shadows. Verify all connections are secure and correct. Inspect cables for damage; replace if necessary. Solar panel efficiency is reduced in cloudy conditions.
Low power output.	Panel not optimally angled towards the sun. Dust or dirt on the panel surface. Partial shading. Low ambient temperature (solar panels perform better in cooler temperatures, but extreme cold can affect performance).	Adjust the panel angle to face the sun directly. Clean the panel surface. Ensure no objects are casting shadows on the panel. Output naturally varies with environmental conditions.
Power station not recognizing the solar panel.	Incompatible connector. Power station input port issue.	Ensure the correct adapter is used for your power station. Test with another power source if possible, or consult your power station's manual.

## SPECIFICATIONS

Attribute	Detail
Brand	EBL
Model Number	ESP-200
Material	Monocrystalline Silicon
Maximum Power	200 Watts
Maximum Voltage	35 Volts (DC)
Efficiency	High Efficiency (up to 23.5%)

Attribute	Detail
Product Dimensions (Unfolded)	94.17"L x 20.83"W x 0.25"H
Product Dimensions (Folded)	25.31"L x 20.87"W x 2.17"H
Item Weight	17.95 Pounds
Connector Type	MC4 (with 4-in-1 cable for XT60, Anderson, DC79*09mm, Aviation)

## WARRANTY AND SUPPORT

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EBL products come with a standard manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please visit the official EBL website or contact their customer service directly. Please retain your proof of purchase for warranty claims.

Official EBL Website: [Visit the EBL Store on Amazon](#)