

BLUETTI SP200

BLUETTI SP200 200W Foldable Solar Panel Instruction Manual

Brand: BLUETTI | Model: SP200

1. INTRODUCTION

The BLUETTI SP200 is a 200-watt monocrystalline solar panel designed for high conversion efficiency, reaching up to 23.5%. Its advanced laminated technology and durable ETFE material provide scratch resistance and IP65 water resistance, protecting against splashing water. This portable and foldable solar panel is ideal for charging compatible BLUETTI power stations and other solar generators.



Image 1.1: BLUETTI SP200 200W Foldable Solar Panel in its unfolded state.

2. PACKAGE CONTENTS

Upon unpacking, please ensure all items listed below are present:

- 1 x BLUETTI SP200 200W Solar Panel
- 1 x User Manual

3. SETUP

The BLUETTI SP200 is designed for easy transport and installation. Follow these steps to set up your solar panel:

1. **Unfold the Solar Panel:** Carefully unfold the SP200 panel completely.
2. **Position the Kickstands:** Extend the integrated kickstands on the back of the panel to support it at an optimal angle towards the sun.
3. **Connect to Power Station:** Use the MC4 connectors to link the solar panel to your compatible BLUETTI power station or other solar generator. Ensure connections are secure.



Kickstand



Carry Bag



Handle



MC4 Connector

Image 3.1: Features of the BLUETTI SP200, including its kickstand, carry bag, handle, and MC4 connector.

For optimal performance, ensure the panel is placed in an area with strong, direct sunlight and adjust its angle to maximize sun exposure. Avoid any shadows falling on the panel.

4. OPERATING INSTRUCTIONS

The BLUETTI SP200 is designed to charge a variety of solar generators. It features MC4 connectors for broad compatibility.

4.1. Compatibility with BLUETTI Power Stations

The SP200 is compatible with various BLUETTI solar generators, including AC200MAX, AC200P, EB3A, EB55, EB70S, AC300, and EP500.

- For BLUETTI EB55: 1 x SP200 can charge in approximately 4-4.5 hours.
- For BLUETTI EB70: 1 x SP200 can charge in approximately 5-5.5 hours.
- For BLUETTI AC200P: We recommend connecting 3-5 pieces of SP200 for efficient charging, as 1 x SP200 is insufficient due to input OCV requirements.
- For BLUETTI AC200MAX: 3 x SP200 can charge in approximately 5-6 hours.
- For BLUETTI AC300 + B300: 3 x SP200 can charge in approximately 7-8 hours.



Image 4.1: Charging compatibility and estimated times for BLUETTI power stations with the SP200.

4.2. Connecting to Other Solar Generators

If your power station's input port is Anderson, you may need to purchase an MC4 to Anderson adapter separately.

4.3. Maximizing Charging Efficiency

The actual output power can be influenced by factors such as weather conditions, temperature, sunlight intensity, and the panel's angle. To achieve higher output wattage, always use the panel under stronger sunlight, adjust its angle frequently to follow the sun's path, and ensure no shadows fall on the solar panel surface.

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Video 4.2: Demonstration of BLUETTI SP200 200W Solar Panel testing with a power station, showcasing setup and performance.

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Video 4.3: A review of the BLUETTI SP200 200W Solar Panel, highlighting its features and practical use.

5. MAINTENANCE

Proper maintenance ensures the longevity and efficiency of your BLUETTI SP200 solar panel.

- **Cleaning:** Regularly clean the surface of the solar panel to remove dust, dirt, bird droppings, or any other obstructions that may reduce efficiency. Use a soft, damp cloth.
- **Water Resistance:** The panel is IP65 water-resistant, meaning it is protected from water splashing. However, **do not place it under heavy rain or submerge it in water.**
- **Storage:** When not in use, fold the panel and store it in a dry, cool place away from direct sunlight and extreme temperatures.

ETFE MATERIAL



Durable



High Light
Transmittance



Anti-Scratch

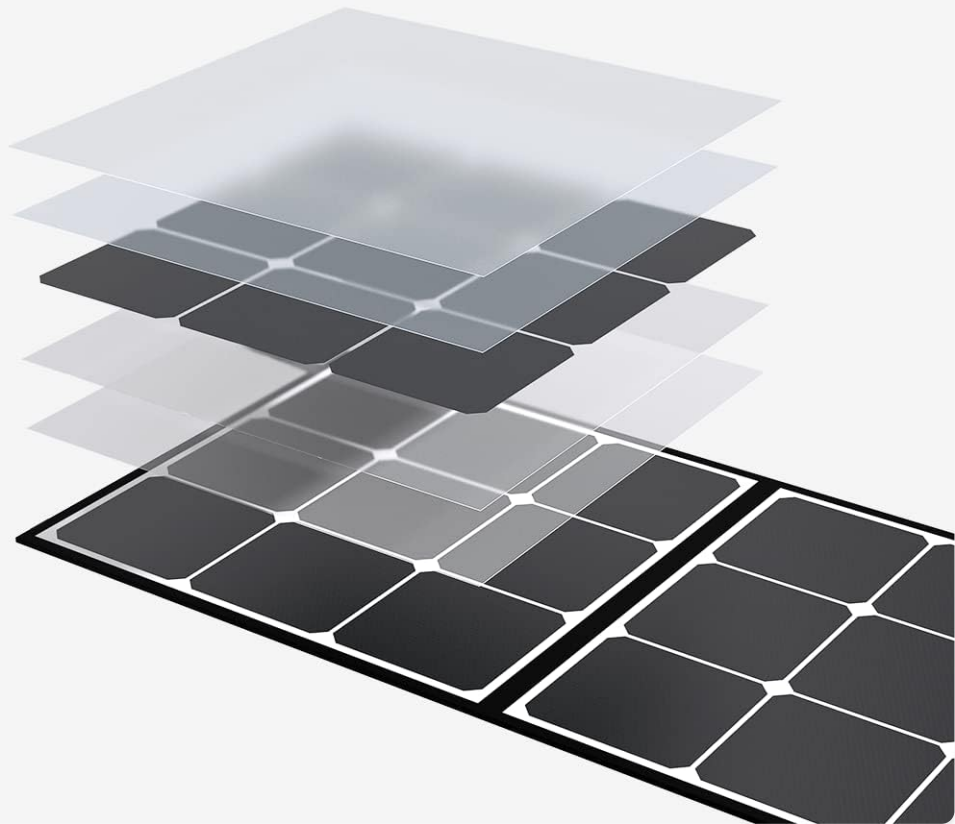


Image 5.1: Illustration of the ETFE material layers, emphasizing durability and anti-scratch features.

6. TROUBLESHOOTING

6.1. Low Power Output

If your SP200 is not providing the expected 200W output, consider the following:

- **Environmental Factors:** Actual output power is significantly affected by weather (cloudiness), ambient temperature, sunlight intensity, and the panel's angle relative to the sun. 200W is achieved under perfect laboratory conditions.
- **Positioning:** Ensure the panel is in direct, unobstructed sunlight. Adjust the angle throughout the day to track the sun.

- **Obstructions:** Verify that no shadows (from trees, buildings, or even bird droppings) are covering any part of the solar panel, as this can drastically reduce efficiency.
- **Cleanliness:** A dirty panel will produce less power. Clean the surface as described in the Maintenance section.

6.2. Panel Damage

While the SP200 is built with durable ETFE material, prolonged exposure to corrosive substances like bird droppings without cleaning, especially in direct sunlight, can potentially lead to material degradation over time. Regular cleaning is crucial to prevent such issues.

7. SPECIFICATIONS

Feature	Detail
Brand	BLUETTI
Model Number	SP200
Maximum Power	200 Watts
Cell Efficiency	Up to 23.5%
Material	ETFE
Item Weight	14.3 Pounds
Product Dimensions	3.94 x 3.94 x 3.94 inches (folded)
Maximum Voltage	24 Volts
AC Adapter Current	11 Amps

PORTABLE SOLAR PANEL EASY TO CARRY

Solar Cell Lamination :	ETFE
Cell Efficiency:	≥23.5%
Power Rating:	200W
Voltage at Max Power (Vmp):	20V
Current at Max Power (Imp):	10A
Open Circuit Voltage (Voc):	24V
Short Circuit Current (Isc):	11A
Operating Temperature:	-10°C~+65°C
Best Working Temperature:	+25°C
Dimension (unfolded):	2200*520mm/86.6*20.5inch
Dimension (folded):	525*520mm/20.7*20.5inch
Weight:	6.5kg/14.3lbs
Warranty:	24 months

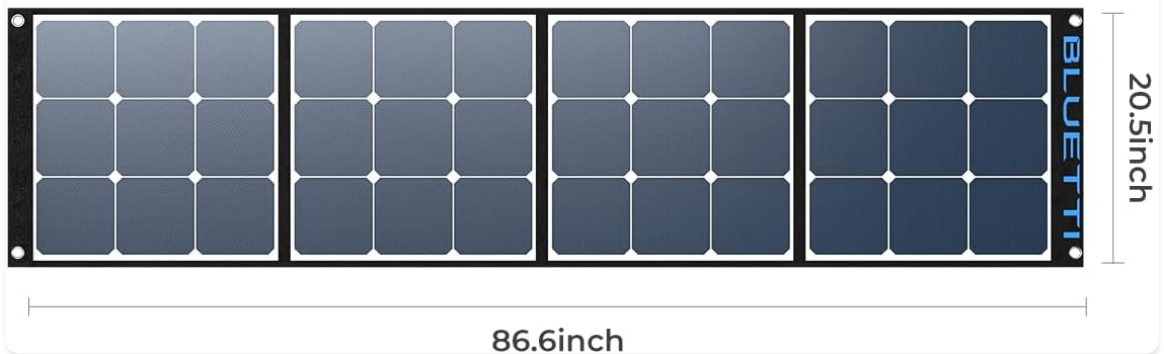


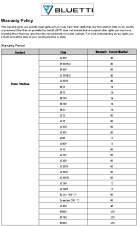
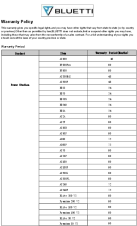



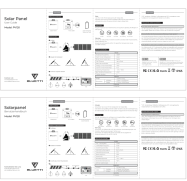
Image 7.1: Detailed specifications and dimensions of the BLUETTI SP200 solar panel.

8. WARRANTY AND SUPPORT

The BLUETTI SP200 solar panel comes with a **2-year warranty**. BLUETTI is committed to providing excellent after-sale service through its widespread sales and service networks. Should you have any questions or require assistance, please do not hesitate to contact BLUETTI customer support.

For further information or support, please refer to the official BLUETTI website or your purchase documentation.

Related Documents - SP200

	<p>BLUETTI Warranty Policy and Product Coverage Details</p> <p>Comprehensive warranty policy for BLUETTI portable power stations, battery modules, solar panels, and accessories. Includes warranty periods, exclusions, and step-by-step instructions for claiming warranty, refunds, and returns.</p>
	<p>BLUETTI Warranty Policy: Coverage, Claims, and Exclusions for Power Stations</p> <p>Comprehensive warranty policy for BLUETTI portable power stations, solar panels, and battery modules. Learn about warranty periods, how to claim, refunds, and exclusions.</p>
	<p>BLUETTI CHARGER 1 DC-DC Charger User Manual V1.0</p> <p>User manual for the BLUETTI CHARGER 1 DC-DC Charger, detailing its features, safety instructions, specifications, installation, operation, and troubleshooting. Designed for fast charging BLUETTI portable power stations from a vehicle's 12V or 24V battery.</p>
	<p>BLUETTI PV200 200W Solar Panel User Guide</p> <p>User guide for the BLUETTI PV200 200W portable solar panel, detailing technical specifications, safety tips, compatibility, and FAQs for optimal use.</p>
	<p>How to Upgrade BLUETTI Device Firmware via the App - Guide</p> <p>Learn how to easily upgrade the firmware on your BLUETTI portable power station (EB3A, AC60, AC180, AC200Max, AC300, AC500, EP500, EP500Pro, EP600, EP900) using the BLUETTI mobile app. Includes step-by-step instructions and troubleshooting tips.</p>
	<p>BLUETTI PV120 120W Solar Panel User Guide Setup, Specs, Compatibility</p> <p>User guide for the BLUETTI PV120 120W portable solar panel, compatible with power stations like EB3A, EB55, EB70, AC200P, AC200MAX, and AC300. Learn setup, technical specifications, and FAQs for RV, camping, and outdoor use.</p>

