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> Yoshino SP200 Foldable 200W Portable Solar Panel User Manual

Yoshino SP200

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Model: SP200

PRODUCT OVERVIEW

The Yoshino SP200 is a high-efficiency, foldable 200W portable solar panel designed to provide reliable power for various applications, including off-grid living, camping, emergencies, and RV use. It features advanced monocrystalline silicon solar cells for superior energy conversion and a durable, weather-resistant design.

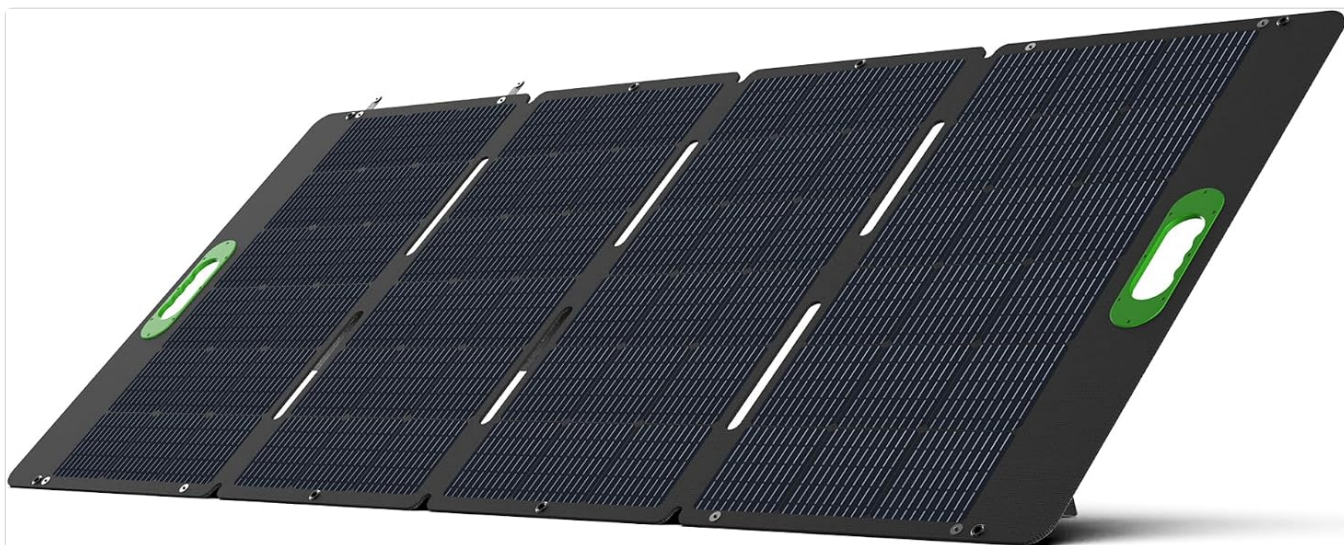


Image: The Yoshino SP200 solar panel fully unfolded, showcasing its four panels and integrated kickstands.

WHAT'S INCLUDED

- (1) Yoshino SP200 200W solar panel
- (1) Standard MC4 solar connection cable
- (1) User Manual (this document)

SETUP

1. **Unfold the Solar Panel:** Carefully unfold the Yoshino SP200 solar panel completely on a flat, stable surface.
2. **Position for Sunlight:** Place the solar panel in an area with direct sunlight, free from shadows.
3. **Adjust Kickstands:** Utilize the three adjustable kickstands on the back of the panel to angle it directly towards the sun.

Optimal angle is typically between 30-45 degrees from the ground, depending on your latitude and the time of day/year. Adjusting the angle maximizes energy harvesting.

Optimize Energy Harvesting

Maximize your solar energy yield with adjustable-angle solar panels

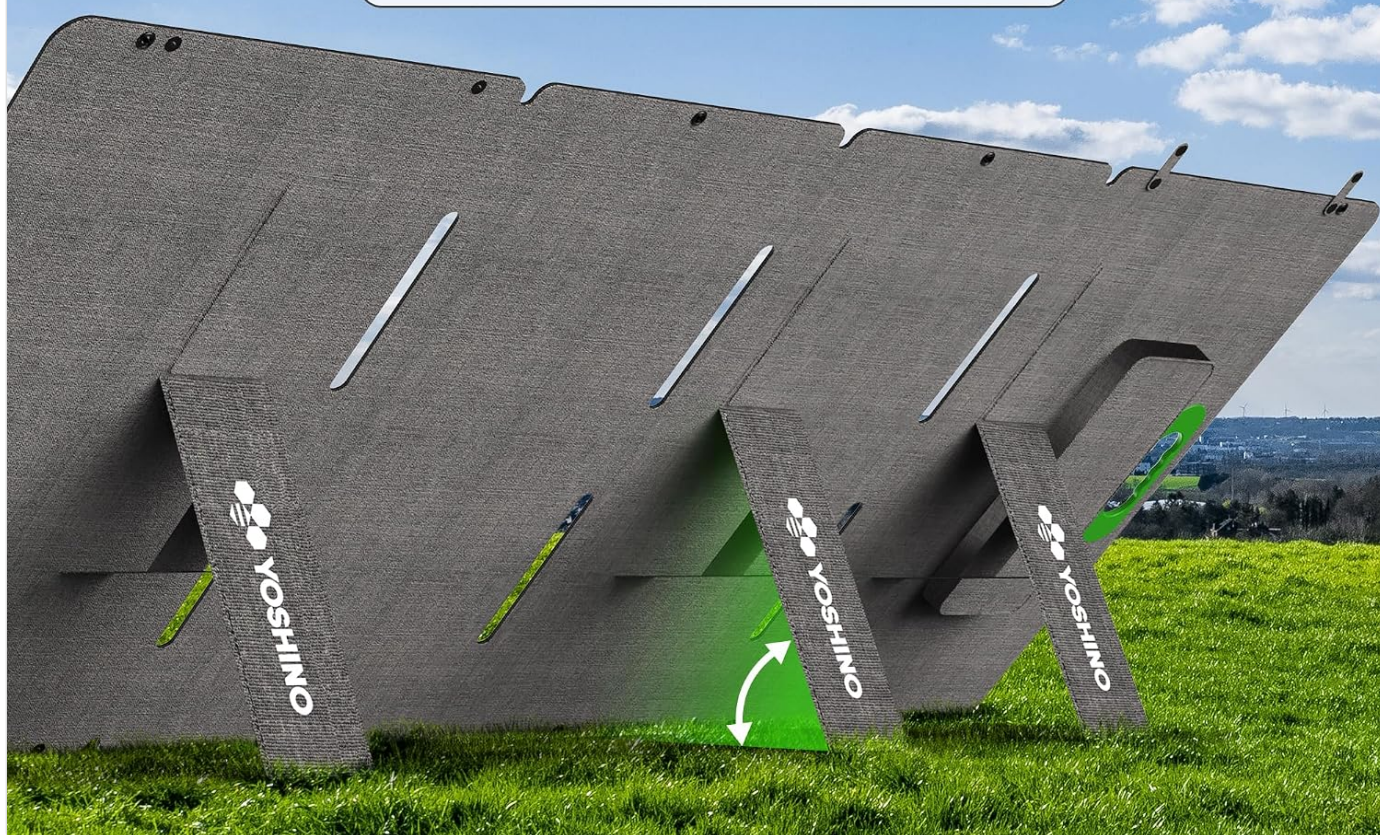
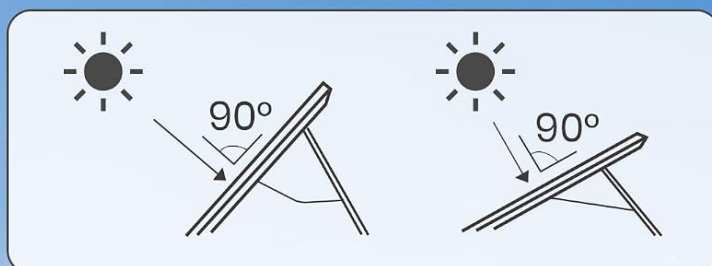


Image: The Yoshino SP200 solar panel with its adjustable kickstands deployed, illustrating how to optimize the angle for maximum sun exposure.

OPERATING INSTRUCTIONS

- 1. Connect to Power Station:** Connect the MC4 connector from the solar panel to the solar input port of your compatible portable power station. The SP200 is designed for seamless compatibility with Yoshino B330, B660, B2000, and B4000 SST solid-state portable solar generators.
- 2. Monitor Charging:** Once connected, your power station should begin charging. Monitor the charging status on your power station's display.
- 3. Optimize Performance:** For best results, ensure the panel remains in direct sunlight throughout the charging process. Periodically adjust the angle of the panel as the sun moves across the sky to maintain optimal efficiency. The monocrystalline silicon solar cells offer a 23% efficiency rating for superior energy conversion.

Universal Compatibility

B2000 SST + SP200



2.5 hours



3.5 hours



7 hours

*Charging from 0 -80%

B4000 SST + SP200



4.5 hours



6.5 hours



13 hours

*Charging from 0 -80%



Image: A diagram illustrating the universal compatibility of the SP200 solar panel with Yoshino B2000 SST and B4000 SST solar generators, showing estimated charging times.

Maximum Efficiency

Reliable monocrystalline solar cells

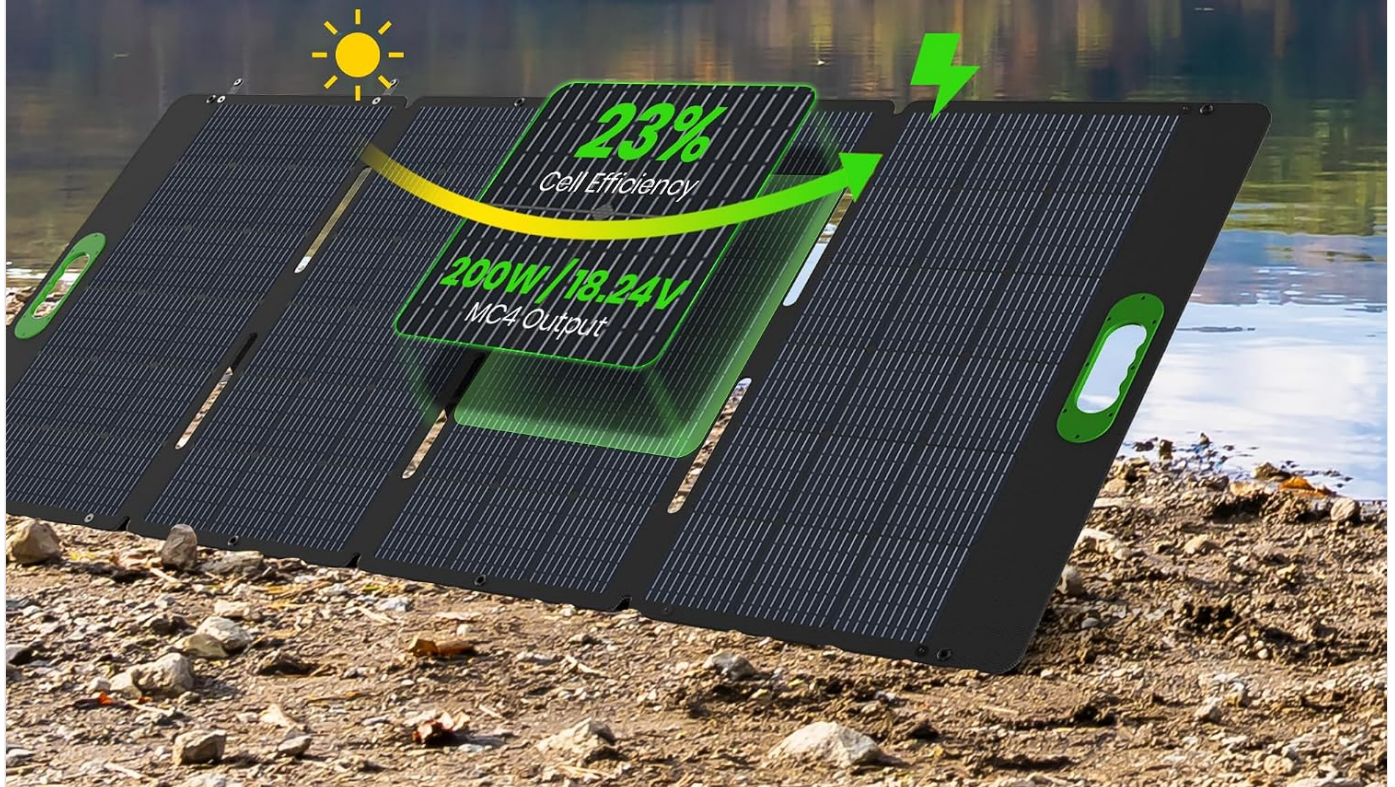


Image: The Yoshino SP200 solar panel positioned by a lake, emphasizing its 23% cell efficiency and 200W/18.24V MC4 output.

MAINTENANCE

- **Cleaning:** Regularly wipe the surface of the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid using abrasive cleaners or harsh chemicals that could damage the ETFE lamination.
- **Inspection:** Periodically inspect the panel and cables for any signs of damage, wear, or loose connections.
- **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 built-in handle grip makes it easy to transport and store.

The SP200 features enhanced durability with ETFE lamination for protection in harsh environments and an IP67 water-resistant rating. It is designed to operate in temperatures ranging from -10°C to 70°C (14°F to 158°F).

Weather-Resistant Performance

IP67 rating ensures durability in the face of rain, snow, and dust.



Image: The Yoshino SP200 solar panel demonstrating its IP67 water-resistant performance under simulated rain.

Extreme Durability, Long Lifespan

• **ETFE Film:**
Enhanced Durability,
lightweight and flexible,
Optimal Light Transmission

• **Monocrystalline:**
High Efficiency

• **EVA Film:**
Reduced Potential-induced
Degradation (PID)

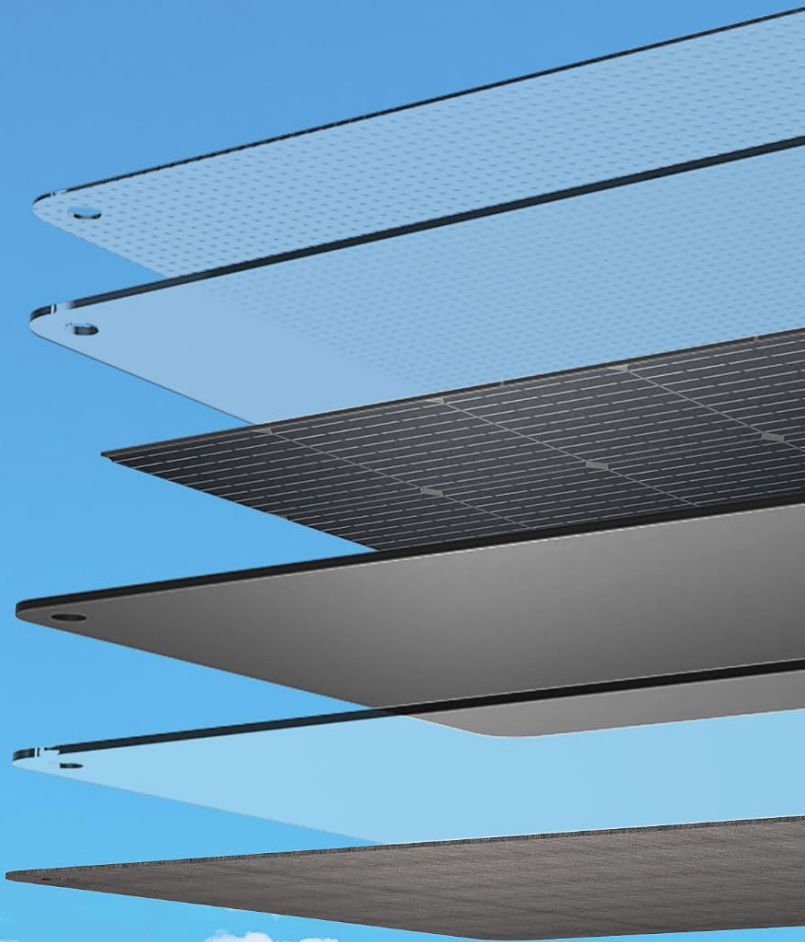


Image: An exploded view diagram illustrating the layers of the Yoshino solar panel, including the ETFE film for enhanced durability, monocrystalline cells for high efficiency, and EVA film for reduced PID.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from panel.	Not enough sunlight; Panel is shaded; Loose connection; Damaged panel/cable.	Ensure panel is in direct sunlight; Remove any obstructions causing shade; Check all cable connections; Inspect panel and cable for visible damage.
Low power output.	Panel not optimally angled; Dirty panel surface; Partial shading; Overcast weather.	Adjust panel angle towards the sun; Clean panel surface; Ensure no partial shading; Output will naturally be lower in cloudy conditions.

Problem	Possible Cause	Solution
Panel not recognized by power station.	Incorrect connection; Incompatible power station; Faulty cable.	Verify MC4 connection is secure and correct; Ensure your power station is compatible with MC4 solar input; Try a different MC4 cable if available.

SPECIFICATIONS

Feature	Detail
Brand	Yoshino
Model	SP200
Maximum Power	200 Watts
Efficiency	23%
Material	Monocrystalline Silicon
Connector Type	MC4 to XT60
Product Dimensions (Unfolded)	71.7"L x 30.8"W x 0.2"H
Folded Size	19.4"L x 30.8"W x 2.0"H
Item Weight	18.7 Pounds
Water Resistance Rating	IP67
Operating Temperature	-10°C to 70°C (14°F to 158°F)
Voltage	18.24 Volts

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Yoshino website or contact their customer service directly. You can often find support details on the product packaging or through the retailer where the product was purchased. Additional resources, including a PDF version of the user manual, may be available on the Yoshino product support page.

Customer Support: For assistance, please visit the [Yoshino Store on Amazon](#) or contact Yoshino directly.

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

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