VTOMAN VS200 Pro (200W/48V)

VTOMAN VS200 Pro Portable Solar Panel User Manual

Model: VS200 Pro (200W/48V)

1. INTRODUCTION

Thank you for choosing the VTOMAN VS200 Pro 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 use and retain it for future reference.

The VTOMAN VS200 Pro is a high-efficiency, foldable solar panel designed for off-grid power generation, compatible with various power stations, including VTOMAN FlashSpeed 1500. Its robust design and versatile connectivity make it ideal for home backup, camping, and other outdoor activities.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the product:

- Do not attempt to disassemble, repair, or modify the solar panel. Unauthorized modifications can lead to electric shock, fire, or product damage.

- Keep the solar panel away from open flames, heat sources, and highly flammable materials.

- Avoid dropping or subjecting the solar panel to severe impacts.

- While the panel has an IP67 water-resistant rating, it is**not** designed to be submerged in water or left exposed to heavy rain for extended periods. Protect connectors from moisture.

- Ensure proper ventilation around the solar panel during operation to prevent overheating.

- Handle the panel by its designated handles. Avoid touching the solar cells directly.

- Keep out of reach of children and pets.

- Before connecting, ensure the voltage and current of the solar panel match the input requirements of your power station.

3. Package Contents

Verify that all items are present in your package:

- 1 x VTOMAN VS200 Pro 200W/48V Portable Solar Panel with MC-4 connector

- 1 x MC-4 to Anderson/XT60/DC5521 Adapter Cable

- 1 x User Manual

Image: Contents of the VTOMAN VS200 Pro package, including the solar panel, adapter cable, and user manual.

4. Setup and Connection

Follow these steps to set up and connect your VTOMAN VS200 Pro solar panel:

1. **Unfold the Solar Panel:** Carefully unfold the VS200 Pro solar panel completely.

2. **Positioning:** Place the solar panel in a location with direct sunlight. Utilize the integrated adjustable kickstands to angle the panel towards the sun for optimal efficiency. For hanging applications, use the circular holes provided.

Image: The VTOMAN VS200 Pro solar panel deployed with its adjustable kickstands, demonstrating easy setup.

3. **Connect the Adapter Cable:** Connect the MC-4 connector built into the solar panel to the MC-4 connector on the adapter cable.

4. **Connect to Power Station:** Select the appropriate adapter connector (Anderson, XT60, or DC5521) from the 3-in-1 adapter cable that matches the input port of your power station. Insert the selected connector firmly into the power station's input.
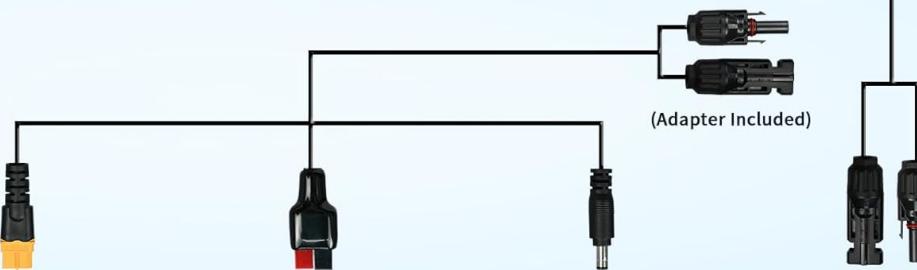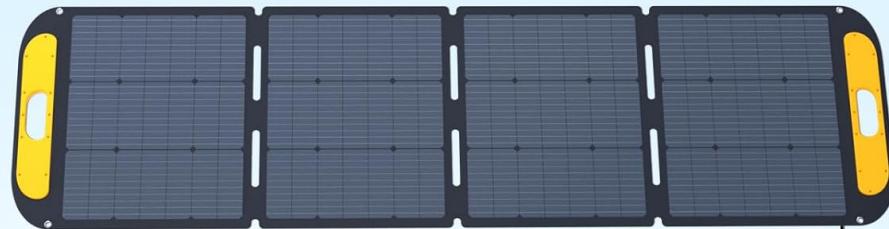
Image: Connection diagram illustrating how to connect the solar panel to various power stations using the included MC-4 to Anderson/XT60/DC5521 adapter cable.

5. **Begin Charging:** Once connected, your power station should begin charging from the solar panel. Monitor the power station's display for charging status.

5. Operating the Solar Panel

The VTOMAN VS200 Pro is designed for straightforward operation. Optimal performance is achieved by ensuring maximum exposure to direct sunlight.

- **Sunlight Optimization:** Adjust the angle of the solar panel throughout the day to follow the sun's path. This maximizes energy capture. The adjustable kickstands facilitate this.

FLASHSPEED 1500

1548WH/1500W

Image: Illustration of how to adjust the solar panel's angle for optimal sunlight absorption during morning, midday, and afternoon.

- **Efficiency:** The panel features 23% high energy conversion rate due to its monocrystalline silicon solar cells. Ensure the panel surface is clean for best performance.

23% HIGH CONVERSION

Made of High-efficiency Monocrystalline Cells

Up to

23%

Conversion efficiency

Image: Detail of the solar panel emphasizing its 23% high conversion efficiency, achieved through high-efficiency monocrystalline cells.

- **Portability:** When not in use, fold the panel for compact storage and easy transport. Its folded dimensions are approximately 26.4 x 23.7 x 2 inches and it weighs 19.5 lbs.

Image: A person carrying the folded VTOMAN VS200 Pro solar panel, illustrating its portability. Dimensions for both folded and unfolded states are provided.

6. MAINTENANCE AND STORAGE

Proper maintenance ensures the longevity and performance of your solar panel:

- **Cleaning:** Regularly wipe the surface of the solar panel with a soft, damp cloth to remove dust, dirt, or debris. A clean surface ensures maximum light absorption. Do not use abrasive cleaners or harsh chemicals.

- **Water Resistance:** The panel is IP67 rated for water resistance, protecting it from splashes. However, avoid prolonged exposure to heavy rain or submersion in water. Ensure connectors are dry before use.

MULTI-HOLE DESIGN
Easy to Hang on the Wall

Image: The solar panel surface with water droplets, demonstrating its IP67 water-resistant rating.

- **Storage:** When not in use, fold the solar panel and store it in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the panel and cables for any signs of damage, wear, or corrosion. If any damage is found, discontinue use and contact customer support.

7. TROUBLESHOOTING

If you encounter issues with your VTOMAN VS200 Pro solar panel, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power output / Power station not charging.	- Insufficient sunlight. - Panel surface is dirty. - Incorrect connection to power station. - Damaged cable or connector. - Incompatible power station voltage.	- Relocate panel to direct sunlight; adjust angle. - Clean the panel surface. - Ensure correct adapter and secure connection. - Inspect cables and connectors for damage. Replace if necessary. - Verify power station compatibility (48V input for VS200 Pro).
Low power output.	- Partial shading on the panel. - Suboptimal panel angle. - High ambient temperature affecting efficiency.	- Ensure no shadows fall on the panel. - Adjust panel angle to face the sun directly. - Ensure good ventilation around the panel.
Panel appears damaged after transport.	Physical impact during shipping or handling.	Do not use. Contact VTOMAN customer support immediately for assistance.

8. SPECIFICATIONS

Model	VS200 Pro (200W/48V)
Maximum Power	200 Watts
Maximum Voltage	48 Volts
Efficiency	Up to 23%
Material	Monocrystalline Silicon
Folded Dimensions (L x W x H)	26.4" x 23.7" x 2"
Item Weight	19.5 Pounds
Water Resistance Rating	IP67
Connectors	Built-in MC-4, includes MC-4 to Anderson/XT60/DC5521 adapter
Special Features	Adjustable kickstands, circular holes for easy hanging

9. WARRANTY AND SUPPORT

VTOMAN products come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official VTOMAN website.
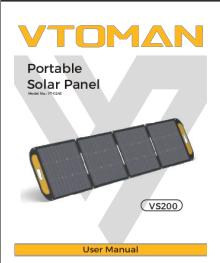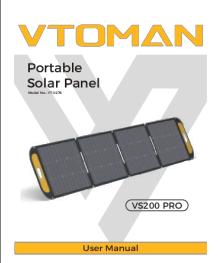
If you require technical assistance, have questions about product operation, or need to report a defect, please contact VTOMAN customer support:

- **VTOMAN Official Website:** www.vtoman.com

- **Customer Service Email:** (Refer to product packaging or official website for current contact information)

Please have your product model number (VS200 Pro) and purchase date ready when contacting support.

Related Documents - VS200 Pro (200W/48V)

VTOMAN Portable Solar Panel VS200 User Manual	[VTOMAN VS200 Portable Solar Panel (YT-0243) User Manual](#) Comprehensive user manual for the VTOMAN VS200 portable solar panel (Model YT-0243). Learn about its high energy conversion, wide compatibility with various connectors (MC4, Anderson, XT60, XT90, DC5521), foldable and portable design, setup instructions, specifications, safety guidelines, and warranty information.
VTOMAN Portable Solar Panel VS200 PRO User Manual	[VTOMAN VS200 PRO Portable Solar Panel User Manual](#) Comprehensive user manual for the VTOMAN VS200 PRO Portable Solar Panel (Model YT-0276). Learn about product highlights, specifications, setup, usage, safety tips, and warranty.
VTOMAN Panel solar portátil VS110 Manual de uso	[Manual de Uso del Panel Solar Portátil VTOMAN VS110](#) Manual detallado para el panel solar portátil VTOMAN VS110, cubriendo características, especificaciones, modo de uso, consejos de seguridad y garantía.
	[VTOMAN X7 Car Battery Booster User Manual](#) Comprehensive user manual for the VTOMAN X7 car battery booster, detailing features, operation, safety, and specifications. Includes thermal design information.

	Vtoman Jump 1800 Portable Power Station User Manual Comprehensive user manual for the Vtoman Jump 1800 Portable Power Station, covering specifications, package contents, safety instructions, operating procedures, FAQs, troubleshooting, storage, maintenance, and warranty information.
	VTOMAN X1 Jump Starter and Air Compressor User Manual (Model JS-211) VTOMAN X1 (Model JS-211) User Manual: Comprehensive guide to the 2500A jump starter and 100PSI air compressor. Learn operation, safety, features, and specifications for your VTOMAN device.