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› VTOMAN Jump 1500X Portable Power Station & 110W Solar Panel User Manual

VTOMAN Jump 1500X+110W (PB22 & YT-0242)

VTOMAN Jump 1500X Portable Power Station & 110W Solar Panel User Manual

Model: Jump 1500X+110W (PB22 & YT-0242)

Brand: VTOMAN

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your VTOMAN Jump 1500X Portable Power Station and the accompanying 110W Solar Panel. Please read this manual thoroughly before use to ensure proper functionality and to prevent damage to the unit or injury.



The VTOMAN Jump 1500X Portable Power Station shown with the 110W Solar Panel. This system provides reliable power for various applications.

PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included. Note that due to package weight, the power station and solar panel may ship separately and arrive at different times.

- 1x VTOMAN Jump 1500X Portable Power Station
- 1x VTOMAN 110W/19V Portable Solar Panel
- 1x MC4 to Anderson/XT60/DC5521 Adapter
- 1x User Manual (this document)

PRODUCT FEATURES

The VTOMAN Jump 1500X and 110W Solar Panel system offers advanced features for reliable and versatile power supply:

- **SuperSafe LIFEBMS Battery Management System:** Equipped with VTOMAN's proprietary SuperSafe LIFEBMS, providing 10 battery protections including over-charge, over-discharge, over-voltage, and over-current protection. The integrated LiFePO4 battery offers enhanced heat resistance and safety compared to NCM batteries.
- **Expandable Capacity:** The base capacity of 828Wh can be expanded up to 2376Wh by connecting a VTOMAN Jump 1500 extra battery (sold separately). The LiFePO4 battery boasts over 3,000 full life cycles before reaching 80% of its original

capacity, ensuring long-term durability.



The Jump 1500X power station can be connected to an additional battery to significantly increase its total energy capacity.

- **1500W Constant-Power Output (V-Beyond Technology):** Features 3 AC outlets with a rated output of 1500W (3000W surge). The Constant-Power function allows the unit to supply 1500W even when powering appliances exceeding 1500W, providing an emergency solution for high-wattage devices like water heaters or ovens without shutting down.



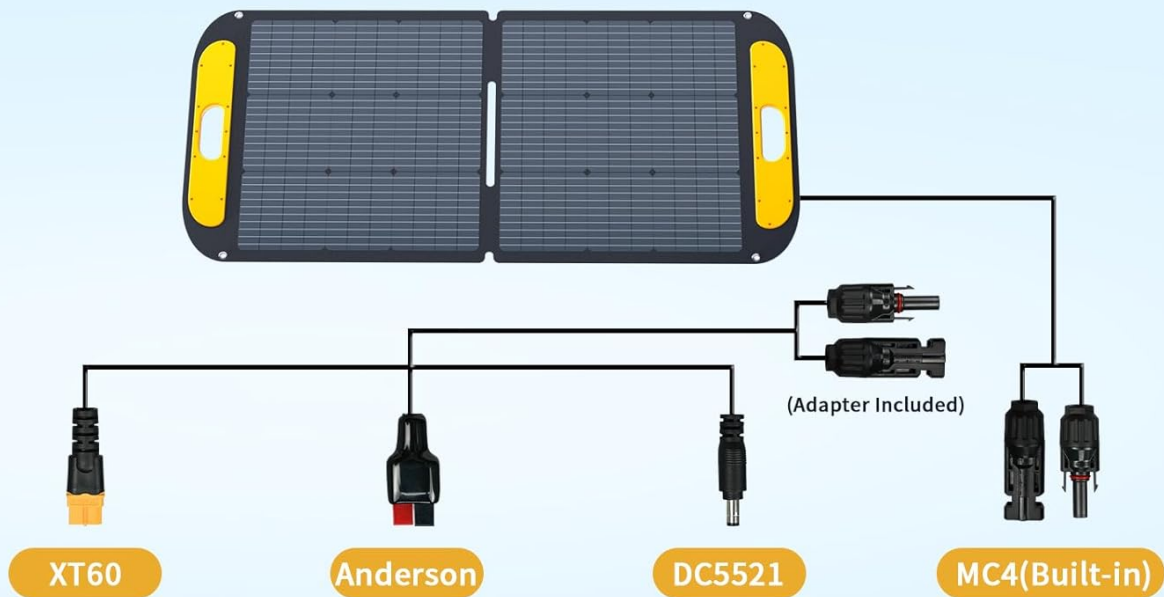
V-Beyond Technology enables the power station to handle resistive loads up to 3000W, such as coffee makers and space heaters.

- **Versatile Output Ports:** Equipped with 12 output ports for simultaneous charging:
 - 3x 110V/1500W AC Outlets
 - 2x Regulated 12V/10A DC5521 Output
 - 1x Regulated 12V/10A Car Port
 - 4x USB-A Output (including 1x QC 3.0 18W Max)
 - 2x PD 100W Type-C Output

Supports pass-through charging, allowing you to charge the power station while it powers other devices.

WIDE COMPATIBILITY

Works with **98%** of Power Stations



Vtoman



Jump 1800



Jump 1500X



Jump 1000



Jump 600X

Others



A close-up of the Jump 1500X's comprehensive array of output ports, including AC, DC, USB-A, and USB-C.

- **High-Efficiency 110W Solar Panel:** Made with monocrystalline silicon solar cells, offering up to 23% energy conversion efficiency.

23% HIGH CONVERSION

Made of High-efficiency Monocrystalline Cells



The 110W portable solar panel features high-efficiency monocrystalline cells for optimal solar energy absorption.

- **Universal Solar Panel Compatibility:** Built-in MC4 interface and includes a 3-in-1 adapter (MC4 to Anderson/XT60/DC5521) for compatibility with most power systems on the market.

14 OUTLETS

More Ports Than You'll Ever Need

1x Add-on Battery Port

1x Jumper Cable Port

2x USB-C | PD100W

3x USB-A | 12W Max

1x Car Port | 12V/10A

2x DC Port | 12V/10A

1x USB-A | 18W Max

3x AC Outlets | 110V/1500W



The VS110 solar panel's universal MC4 interface and included adapters ensure broad compatibility with many portable power stations.

SETUP

Setting up the Power Station

The VTOMAN Jump 1500X is designed for immediate use. Ensure the unit is placed on a stable, flat surface in a well-ventilated area. Keep clear of direct sunlight and heat sources when operating or charging.

Setting up the 110W Solar Panel

The 110W portable solar panel is designed for quick and easy deployment:

- **Ground Setup:** Unfold the solar panel and extend the two adjustable kickstands on the back. Position the panel to face the sun directly for optimal charging efficiency.
- **Hanging Setup:** The panel features four circular holes, allowing it to be easily hung in various locations such as balconies, RVs, or roofs for solar exposure.

GO SOLAR WITH VTOMAN JUMP 1500X

Utilize a 200W solar input and recharge in **8-9** hours



Built-in MPPT Feature

The VTOMAN Jump 1500X power station being charged by the 110W solar panel in an outdoor setting, demonstrating easy setup.

OPERATION

Charging the Power Station

The Jump 1500X offers multiple charging methods:

- **AC Wall Outlet:** Connect the included AC adapter to the power station's input port and then to a standard wall outlet. Full charge typically takes approximately 4 hours (200W Max input).
- **Solar Charging:** Connect the 110W solar panel to the power station using the MC4 to DC5521 adapter. Position the solar panel in direct sunlight. Charging time is approximately 8-9 hours for a full charge (200W Max input).
- **Car Charging:** Use a compatible car charger (not included) to charge the power station from your vehicle's 12V/24V outlet. Charging time is approximately 6-8 hours.



The Jump 1500X can be conveniently charged via a wall outlet, solar panel, or a car's 12V/24V port.

Powering Devices

To power your devices, simply plug them into the appropriate output ports (AC, DC, USB-A, USB-C) on the front panel of the power station. Ensure the power station is turned on and the specific output port (e.g., AC, DC) is activated if it has a dedicated button.

- **AC Output:** For devices requiring 110V AC power up to 1500W.
- **DC Output:** For 12V DC devices.
- **USB Output:** For charging smartphones, tablets, laptops, and other USB-powered devices. The PD 100W Type-C ports are ideal for fast charging compatible laptops.

The display screen will show the remaining battery percentage and estimated runtime based on the current power draw.

12V Car Jump Starting

The Jump 1500X can also function as a 12V car jump starter. This feature requires a separate jumper cable (available individually). Follow these steps for safe jump starting:

1. Ensure the power station has sufficient charge.
2. Connect the jumper cables to the designated jumper cable port on the power station.
3. Connect the red clamp to the positive (+) terminal of the vehicle's battery and the black clamp to the negative (-) terminal.
4. Start the vehicle.
5. Once the vehicle starts, disconnect the jumper cables from the vehicle battery first, then from the power station.



The Jump 1500X can be used to jump start 12V vehicles, including ATVs, motorcycles, and cars, using a separately available jumper cable.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your VTOMAN Jump 1500X and solar panel:

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to discharge the battery to about 50% and recharge it every 3-6 months to maintain battery health.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power station and solar panel. Do not use abrasive cleaners or immerse the unit in water.
- **Battery Health:** The LiFePO4 battery is designed for over 3,000 life cycles. Avoid consistently fully discharging the unit to 0% or keeping it at 100% charge for extended periods when not in use, as this can affect long-term battery health.
- **Solar Panel Care:** Keep the solar panel surface clean from dust, dirt, and debris to ensure maximum sunlight absorption and charging efficiency.

TROUBLESHOOTING

If you encounter issues with your VTOMAN Jump 1500X, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Power station not turning on.	Battery is fully discharged; power button not pressed correctly.	Charge the power station. Press and hold the main power button for a few seconds.
Devices not charging from AC outlets.	AC output not activated; device power draw exceeds 1500W; power station is in protection mode.	Ensure the AC output button is pressed. Check device wattage. If over 1500W, the constant-power feature should engage; if not, reduce load. Restart the unit.
Solar panel not charging the power station.	Insufficient sunlight; panel not angled correctly; incorrect connection; dirty panel surface.	Ensure direct sunlight and adjust panel angle. Verify all cable connections are secure. Clean the solar panel surface.
Unit displays an error code.	Internal fault; battery protection activated.	Refer to the specific error code in the full user manual (if provided separately) or contact VTOMAN customer support.

For issues not covered here, please contact VTOMAN customer support for assistance.

SPECIFICATIONS

Feature	Detail
Brand	VTOMAN
Model Name	Jump 1500X+110W
Item Model Number	PB22 & YT-0242
Battery Type	LiFePO4
Capacity	828Wh (Expandable to 2376Wh)
AC Output (Rated)	1500W (Pure Sine Wave)
AC Output (Surge)	3000W
DC Output	2x Regulated 12V/10A DC5521, 1x Regulated 12V/10A Car Port

Feature	Detail
USB-A Output	4 ports (including 1x QC 3.0 18W Max)
USB-C Output	2x PD 100W Max
Solar Panel Wattage	110W
Solar Panel Conversion Rate	Up to 23%
Charging Input (AC)	200W Max
Charging Input (Solar)	200W Max
Item Weight	30.8 pounds (Power Station)
Product Dimensions	14.2"L x 10.7"W x 11"H (Power Station)
Recommended Uses	Blackout Emergencies, Camping, Home Backup Power, RV/Van Travel, Residential

WARRANTY AND SUPPORT

VTOMAN provides support for its products. The Jump 1500X Portable Power Station comes with **2 years of support**. For warranty claims, technical assistance, or any inquiries, please contact VTOMAN customer service through their official channels or the retailer where the product was purchased.

For the most up-to-date support information, please visit the official VTOMAN website or refer to the contact details provided in your product packaging.