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› VTOMAN Portable Power Station FlashSpeed 1500 User Manual

VTOMAN PB-58

VTOMAN FlashSpeed 1500 Portable Power Station User Manual

Model: PB-58
Brand: VTOMAN

1. INTRODUCTION

The VTOMAN FlashSpeed 1500 Portable Power Station is a versatile and powerful energy solution designed for various applications, including camping, power outages, and home backup. Featuring a robust LiFePO4 battery, fast charging capabilities, and multiple output ports, it provides reliable power wherever you need it. This manual provides essential information for safe and efficient operation, maintenance, and troubleshooting.



Figure 1.1: VTOMAN FlashSpeed 1500 Portable Power Station with 400W Solar Panel.

2. SAFETY INSTRUCTIONS

Please read all safety warnings and instructions carefully before using this product. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, heat sources, and direct sunlight.
- Do not expose the unit to water or other liquids.
- Store the unit in a dry, well-ventilated area.
- Ensure proper ventilation during operation to prevent overheating.
- Do not use the unit if it is damaged or has been dropped.
- Keep out of reach of children and pets.
- Use only original or certified accessories.
- Dispose of the unit according to local regulations.

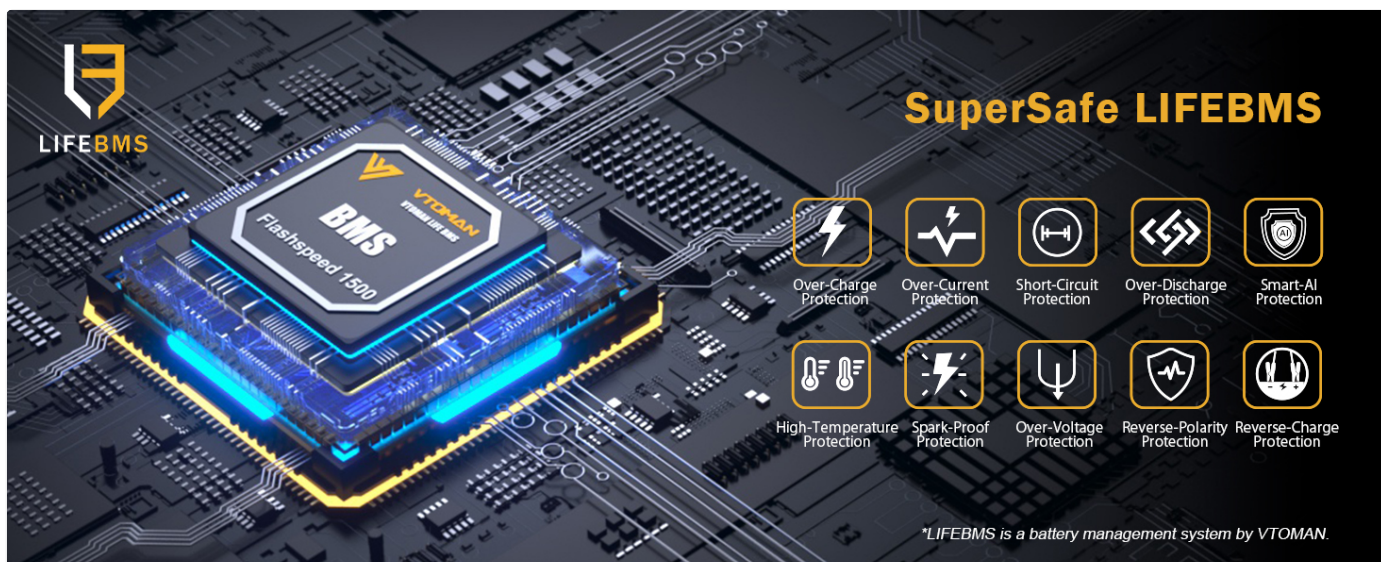


Figure 2.1: The FlashSpeed 1500 incorporates SuperSafe LIFE BMS technology for comprehensive protection against overcharge, over-current, short-circuit, over-discharge, high-temperature, spark-proof, over-voltage, and reverse-polarity/reverse-charge.

3. PRODUCT COMPONENTS AND OVERVIEW

The VTOMAN FlashSpeed 1500 is designed with user convenience and functionality in mind. Below is an overview of its key features and components.

VTOMAN FLASHSPEED 1500

ONE HOUR TO FULL CHARGE

1500W Rated Power + **1548Wh** Capacity



1-Hour Full Charge

1500W AC Input



LiFePO4 Batteries

3000+ Cycles



Expandable Capacity

Up to 3096Wh



V-Beyond Technology

Power Up to 3000W



UPS Function

10ms Uninterrupted
Power Supply



Flat Top Design

Stackable & Easy to Store

Figure 3.1: Key features of the FlashSpeed 1500, including 1-hour full charge, LiFePO4 batteries, expandable capacity, V-Beyond technology, UPS function, and flat top design.



Figure 3.2: Detailed diagram of the FlashSpeed 1500's output ports, including USB-C, USB-A, DC5521, Car Port, and AC outlets.

Included Components:

- 1 x FlashSpeed 1500 Portable Power Station
- 1 x VS400 400W/40V Portable Solar Panel
- Charging Cables (AC, Car)
- User Manual

4. SETUP

Initial Charge:

Before first use, fully charge the FlashSpeed 1500. It can be charged via AC wall outlet, solar panel, or car charger.

POWER UP AND GO

1500W AC INPUT

Recharge to **100%**

 **1H**



Figure 4.1: Connecting the FlashSpeed 1500 to an AC wall outlet for rapid charging. The unit can reach 100% charge in approximately 1 hour.

Solar Panel Setup (VS400):

The VS400 solar panel is designed for easy setup and portability.

- Unfold the solar panel and position it in direct sunlight.
- Adjust the integrated kickstand to optimize the angle towards the sun for maximum efficiency.

- Connect the solar panel to the FlashSpeed 1500's solar input port.

VTOMAN VS400

Portable Solar Panel

400W / 40V



23% High Conversion



Wide Compatibility

(MC4/Anderson/XT60/DC5521)



Easy Set-Up



Portable & Foldable



IP67 Waterproof



Durable

Figure 4.2: The VS400 Portable Solar Panel offers 23% high conversion efficiency, wide compatibility, easy setup, portability, IP67 waterproof rating, and durable construction.

Easy Set-Up



Figure 4.3: Examples of easy solar panel setup for outdoor use, truck bed charging, and RV power.

5. OPERATING INSTRUCTIONS

Charging the Power Station:

The FlashSpeed 1500 supports multiple charging methods:

- **AC Wall Charging:** Connect the included AC charging cable to a standard wall outlet. The unit charges from 0% to 100% in approximately 1 hour.
- **Solar Charging:** Connect the VS400 solar panel to the power station. With optimal sunlight, it can fully charge in 4-8 hours.
- **Car Charging:** Use the 12V car charging cable to charge from your vehicle's cigarette lighter port. Full charge takes approximately 13-14 hours.

Multiple Charging Methods



1500W AC Input
Recharges to full within 1 Hour
90-140V / 1500W Max



400W Anderson Input
Recharges to full within 4-8 Hours
30-60V / 400W Max



200W DC Input
Recharges to full within 7-8 Hours
12-20V / 200W Max

*It supports simultaneous charging of 3 input ports, with a total maximum input power of 2100W.

Figure 5.1: The FlashSpeed 1500 can be recharged via 1500W AC input (1 hour), 400W Anderson solar input (4-8 hours), or 200W DC car input (7-8 hours). Simultaneous charging from multiple inputs is supported.

Powering Devices:

The FlashSpeed 1500 offers 12 multi-function output ports to power various devices simultaneously.

- **AC Outlets:** Three 110V/1500W Pure Sine Wave AC outlets for household appliances.

- **USB-C Output:** Two USB-C ports with up to 100W max output for fast charging laptops and modern devices.
- **USB-A Output:** Four USB-A ports, including one 18W Quick Charge port and three 5V/2.4A ports.
- **DC Output:** Two DC5521 12V/10A ports and one 12V/10A car cigarette lighter port.



Power for Home Appliances

 Coffee Maker 1.3 Hrs (1000W)	 Refrigerator 18~36 Hrs (70W)	 Microwave 1.1 Hrs (1200W)
 Washer 2.6 Hrs (500W)	 Skillet 1.1 Hrs (1200W)	 50" TV 16 Hrs (80W)

Figure 5.2: The FlashSpeed 1500 can power various home appliances such as coffee makers, refrigerators, microwaves, washers, skillets, and 50" TVs.

Power for Off-Grid Life

 Camera 86 Times (15W)	 Phone 130 Times (10W)	 Drone 32 Times (40W)
 Speaker 43 Hrs (30W)	 Blender 2.6 Hrs (500W)	 Projector 16 Hrs (80W)



Figure 5.3: The FlashSpeed 1500 is suitable for off-grid use, powering devices like cameras, phones, drones, speakers, blenders, and projectors.



Figure 5.4: The FlashSpeed 1500 can power professional tools such as circular saws, air conditioners, electric drills, cutting machines, air fryers, and electric ovens.

Uninterrupted Power Supply (UPS) Function:

When connected to an AC wall outlet, the FlashSpeed 1500 can function as an Uninterrupted Power Supply (UPS). In the event of a power outage, it automatically switches to battery power within <20ms, ensuring continuous operation for connected devices like computers and CPAP machines.



Figure 5.5: The FlashSpeed 1500 provides uninterrupted power supply with a switchover time of less than 20 milliseconds, preventing disruptions to sensitive electronics during power outages.

12V Car Jump Starter:

The FlashSpeed 1500 can be used as a 12V car jump starter for ATVs, motorcycles, and cars. A jumper cable is available individually (not included in standard package).



Fast Starting Cars
12V Car Jump Starter

Get you back on road in 3 seconds!





Note: Jumper cable is available individually.

Figure 5.6: The FlashSpeed 1500 can quickly jump-start 12V vehicles, including ATVs, motorcycles, and cars.

5-Mode LED Light:

The unit features a built-in LED light with five modes: Low, Middle, High, Flash, and SOS, providing reliable illumination for various situations.

5-Model LED Light

Lighting up the night, whether outdoors or during a power outage, with reliable brilliance.









Figure 5.7: The FlashSpeed 1500 features a versatile 5-mode LED light for various lighting needs, from ambient light to emergency signaling.

6. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months to maintain battery health.
- **Battery Life:** The LiFePO4 battery is designed for over 3000 charge cycles to 80% capacity.

SUPERSAFE & DURABLE LIFEPO4 BATTERIES

3000+ Cycles to **80%**

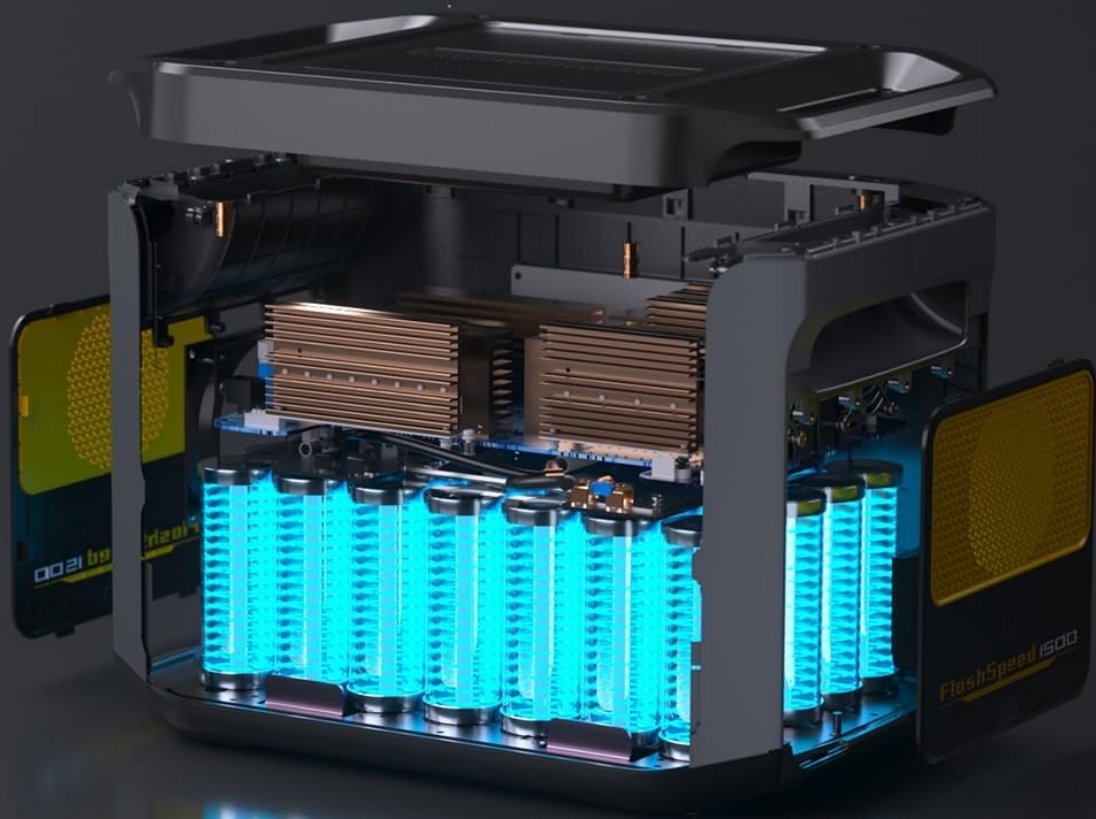


Figure 6.1: The FlashSpeed 1500 utilizes durable LiFePO4 batteries, offering over 3000 charge cycles for extended lifespan and enhanced safety.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit not turning on	Battery depleted; Power button not pressed correctly.	Charge the unit; Press and hold the power button for 3 seconds.
No output from ports	Output port not activated; Overload protection triggered.	Ensure the specific output (AC/DC/USB) is turned on; Reduce connected load.
Slow charging via solar	Insufficient sunlight; Panel not optimally angled; Dirty panel.	Relocate panel to direct sunlight; Adjust angle; Clean panel surface.
Unit overheating	Poor ventilation; Excessive load.	Ensure clear airflow around the unit; Reduce connected load.

If the problem persists, please contact VTOMAN customer support.

8. SPECIFICATIONS

Feature	Detail
Model Name	PB-58
Battery Type	LiFePO4
Capacity	1548Wh (Expandable to 3096Wh)
AC Output	1500W (3000W Peak), 110V Pure Sine Wave
USB-C Output	2 x 100W Max
USB-A Output	1 x 18W Quick Charge, 3 x 5V/2.4A
DC Output	2 x DC5521 12V/10A, 1 x Car Port 12V/10A
AC Input (Charging)	1500W Max (Full charge in 1 hour)
Solar Input (Charging)	400W Max (Full charge in 4-8 hours)
Car Input (Charging)	12V/10A (Full charge in 13-14 hours)
Dimensions (L x W x H)	15.6" x 10.5" x 11"
Special Features	SuperSafe LIFEBS, V-Beyond Technology, UPS Function, 5-Mode LED Light, 12V Car Jump Starter

9. WARRANTY AND SUPPORT

VTOMAN products come with a comprehensive warranty and dedicated customer support.

- **Warranty Period:** 24-Month Protection from the date of purchase.

- **Returns:** 30-Day Easy Returns policy.
- **Customer Support:** For assistance, please contact us at service.us@vtoman.com.



Figure 9.1: VTOMAN offers a 24-month protection warranty and 30-day easy returns, with ongoing support available via email.

10. PRODUCT VIDEOS

Watch the official product videos for more information on the VTOMAN FlashSpeed 1500 Portable Power Station.

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Video 10.1: Official product overview of the VTOMAN FlashSpeed 1500 Power Station, highlighting its key features and capabilities.

