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TALLPOWER V2400

TALLPOWER Portable Power Station V2400 User Manual

Model: V2400

1. INTRODUCTION

Thank you for choosing the TALLPOWER V2400 Portable Power Station. This device is a high-capacity, high-output portable power solution designed for various applications, including outdoor activities, emergency backup, and professional use. Featuring a 2160Wh LiFePO4 battery and 2400W AC output, it provides reliable power for a wide range of electronic devices and appliances.



Figure 1: Front view of the TALLPOWER V2400 Portable Power Station, showcasing its display and various ports.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the TALLPOWER V2400. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Do not use the unit in environments with high humidity or corrosive substances.
- Ensure proper ventilation during use to prevent overheating.
- Keep out of reach of children and pets.
- Use only approved accessories and charging cables.
- In case of malfunction, immediately disconnect the unit and contact customer support.

3. PRODUCT OVERVIEW

The TALLPOWER V2400 is equipped with multiple input and output ports to accommodate various devices. Refer to the diagram below for a detailed layout of the ports and controls.



Compatible avec plus de **95%**
des outils extérieurs

Pas besoin de s'inquiéter de manquer d'énergie
pour les outils de travail extérieurs

Figure 2: Detailed diagram illustrating the 16 output ports and control panel of the TALLPOWER V2400. This includes AC outlets, USB ports, DC ports, and the main display.

3.1 Key Components

- **Main Display:** Shows real-time input/output power, battery level, and status indicators.
- **Power Button:** Turns the unit on/off.
- **AC Output Ports:** For powering standard household appliances.
- **USB Ports (USB-A, USB-C):** For charging mobile devices, laptops, and other USB-powered electronics.
- **DC Output Ports (Car, XT-60, DC5521):** For various DC-powered devices.
- **Input Ports:** For AC, solar, and car charging.
- **LED Lighting:** Integrated light for illumination.

4. SETUP

4.1 Unboxing and Initial Inspection

Upon receiving your TALLPOWER V2400, carefully unbox the unit and inspect it for any signs of damage.

Ensure all accessories listed in the package contents are present:

- TALLPOWER V2400 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual

4.2 Initial Charging

Before first use, it is recommended to fully charge the TALLPOWER V2400. Connect the AC charging cable to a wall outlet and to the AC input port on the power station. The display will indicate the charging status. A full charge via AC input takes approximately 2 hours. Combining AC input with solar charging can reduce this time to about 1.5 hours.



Figure 3: The TALLPOWER V2400 connected to an AC outlet for rapid charging, illustrating its 1.5-hour fast charge capability.

5. OPERATING INSTRUCTIONS

5.1 Turning On/Off

Press and hold the main power button for a few seconds to turn the unit on or off. The display will illuminate when the unit is active.

5.2 Charging Devices

The TALLPOWER V2400 offers a versatile array of 13 output ports:

- 3 AC outlets
- 4 USB-C ports (3x 20W, 1x 100W)
- 2 USB-A ports (QC 3.0)
- 1 DC car charging port (12V/10A)
- 1 XT-60 connection (12V/25A)
- 2 DC5521 connections (12V/3A)

To charge a device, connect it to the appropriate output port. Ensure the specific output group (AC, DC, USB) is activated via its dedicated button if available. Each interface is protected by a silicone cover to prevent dust and moisture ingress.

The infographic is set against a dark background of a tent at night. It is divided into two main sections: 'USAGE EXTÉRIEUR' (Outdoor Use) and 'APPAREILS MÉNAGERS' (Home Appliances). Each section lists various devices with their power consumption and runtime.

Device	Power (W)	Runtime (H)
projecteur	100W	21.6H
mini-réfrigérateur	60W	36H
Presse-agrumes	300W	7.2H
perceuse électrique	300W	7.2H
Cafetière	550W	4.0H
four électrique	160W	13.5H
cuisinier de riz	500W	4.3H
drone	77W	28H
plaque à induction	1800W	1.2H
climatiseur	1150W	1.9H
bouilloire électrique	1100W	2.0H
Macbook Air (13889mAh)	-	46Times
téléphone portable (3055mAh)	-	210Times
Lampe de bureau (10W)	-	216H

Figure 4: The TALLPOWER V2400 providing power for various outdoor devices, demonstrating its versatility for camping and other activities.

5.3 High-Power Appliance Usage

With a 2400W output (and up to 4800W peak), the V2400 can power demanding appliances such as electric ovens, microwaves, and refrigerators. Always check the power requirements of your appliance to ensure it does not exceed the power station's capacity.



Figure 5: The TALLPOWER V2400 connected to and powering high-wattage kitchen appliances, highlighting its robust output capabilities.

5.4 Uninterruptible Power Supply (UPS) Function

The V2400 features an Uninterruptible Power Supply (UPS) function. When connected to an AC wall outlet and simultaneously powering devices, it acts as a pass-through power source. In the event of a power outage, it automatically switches to battery power within 0.008 seconds, ensuring continuous operation for connected devices. This feature is crucial for protecting sensitive electronics and critical data.

5.5 Intelligent Input Current Adjustment

The TALLPOWER V2400 includes an intelligent input current adjustment button, allowing users to select input

power levels of 300W, 500W, 700W, 900W, or 1100W. This feature provides control over charging speed and helps maintain stable input voltage, protecting the unit and connected devices from voltage instability.

6. MAINTENANCE

6.1 Battery Care

The V2400 is equipped with a high-security LiFePO4 battery, similar to those used in electric vehicles. This battery technology provides over 3500 charge and discharge cycles, offering an estimated lifespan of 10 years under optimal conditions.

- Store the unit in a cool, dry place, away from direct sunlight.
- For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health.
- Avoid fully discharging the battery frequently, as this can reduce its overall lifespan.

6.2 Battery Management System (BMS)

An advanced Battery Management System (BMS) is integrated into the V2400. This system provides comprehensive protection against:

- Overcharge protection
- Overload protection
- Overcurrent protection
- Over-discharge protection
- Short circuit protection
- Over-temperature protection
- Low-temperature protection
- Low voltage protection

EQUIPÉ DE HUIT CIRCUITS DE PROTECTION

 basse température

 protection contre les surcharges

 Protection contre la surchauffe

 Protection contre la surcharge

 protection basse tension

 Protection de survoltage

 protection contre les sous-tensions

 Protection de court circuit

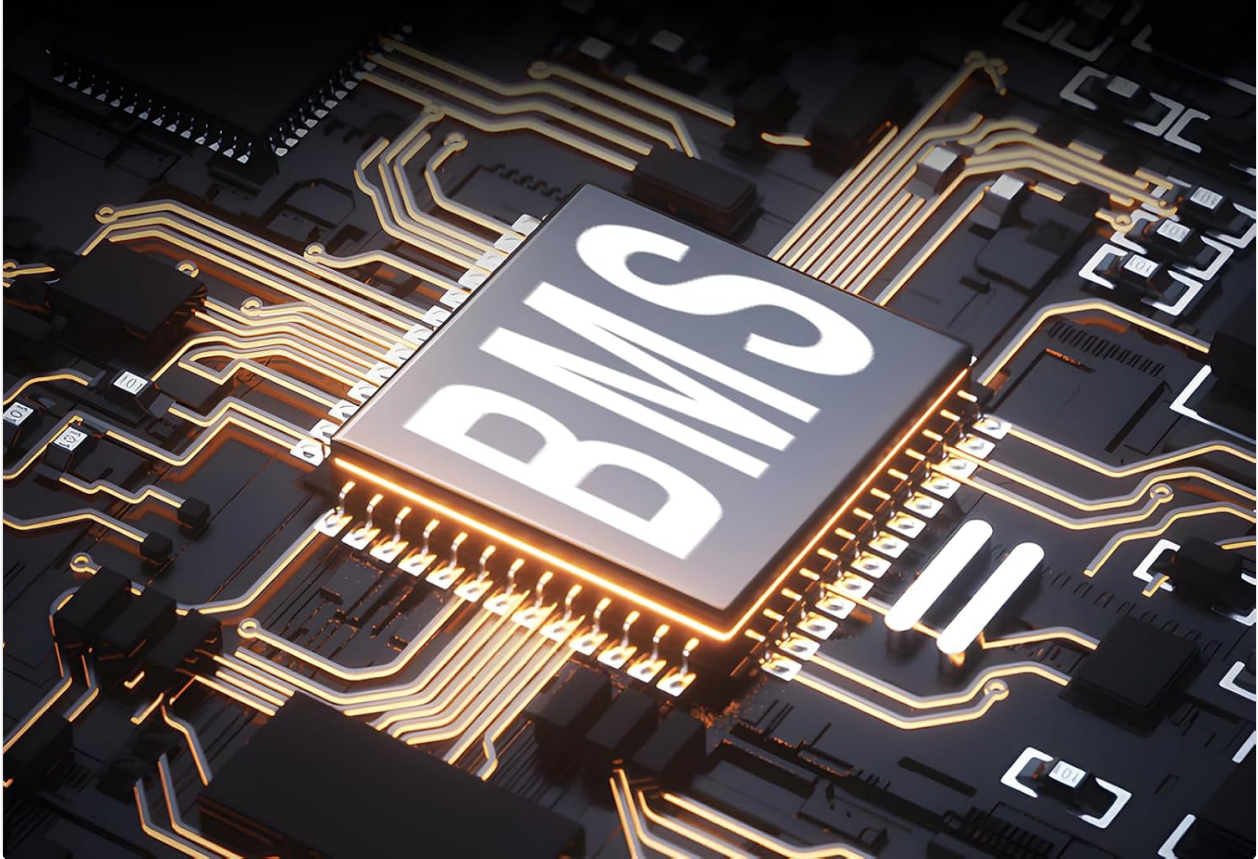


Figure 6: Illustration of the eight protection circuits provided by the advanced Battery Management System (BMS) within the TALLPOWER V2400.

7. TROUBLESHOOTING

If you encounter any issues with your TALLPOWER V2400, please refer to the following common troubleshooting steps:

- **Unit not turning on:** Ensure the battery is charged. Press and hold the power button firmly for a few seconds.
- **No output from ports:** Check if the specific output group (AC, DC, USB) is activated. Ensure the connected device is within the power station's output limits.
- **Charging slowly:** Verify that the input cable is securely connected. Check the selected input current setting using the adjustment button. Ensure solar panels (if used) are receiving adequate sunlight.
- **Overload warning:** Disconnect some devices to reduce the total power draw. The unit will automatically recover once the load is reduced.
- **Overheating warning:** Ensure the unit has proper ventilation and is not exposed to direct sunlight or high ambient temperatures. Allow it to cool down.

If the problem persists after attempting these steps, please contact TALLPOWER customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Brand	TALLPOWER
Model	V2400
Battery Type	LiFePO4
Capacity	2160 Wh / 675000 mAh
AC Output Power	2400 W (Rated), 4800 W (Peak)
AC Input Power	Up to 1100 W
Solar Input Power	Up to 500 W
AC Output Voltage	230 Volts (AC)
USB Ports	4x USB-C (3x 20W, 1x 100W), 2x USB-A (QC 3.0)
DC Ports	1x Car (12V/10A), 1x XT-60 (12V/25A), 2x DC5521 (12V/3A)
Total Number of Ports	13 (Output)
UPS Switchover Time	0.008 seconds
Weight	22 Kilograms

9. WARRANTY AND SUPPORT

The TALLPOWER V2400 Portable Power Station comes with a three-year warranty from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For any questions, technical support, or warranty claims, please do not hesitate to contact TALLPOWER customer support. We are committed to responding to your inquiries within 48 hours.

Please retain your proof of purchase for warranty validation.