

OSCAL PowerMax 6000

OSCAL PowerMax 6000 Portable Power Station User Manual

Model: PowerMax 6000

Brand: OSCAL

1. INTRODUCTION

The OSCAL PowerMax 6000 is a high-capacity portable power station designed to provide reliable power for various applications, from home emergencies to outdoor adventures. Featuring a 3600Wh LiFePO4 battery and a 6000W (Surge 7200W) output, it supports DC/AC bi-directional inverter 120V/240V dual voltage output. Its robust construction ensures durability in diverse environments, and advanced features like 5-8ms UPS fast switchover and smart app control enhance its utility.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the PowerMax 6000. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not expose the device to rain or moisture.
- Operate the device within the specified temperature range of -20°C to 55°C (optimal range: -10°C to 45°C).
- Ensure adequate ventilation during operation to prevent overheating.
- Do not disassemble, repair, or modify the unit. Contact authorized service personnel for any repairs.
- Keep out of reach of children.
- Avoid dropping the unit from heights greater than 0.8 meters.
- Use only approved charging cables and accessories.

3. WHAT'S IN THE BOX

Verify that all the following components are included in your package:

- OSCAL PowerMax 6000 Portable Power Station
- AC Charging Cable
- Car Charging Cable

- Solar Charging Cable
- User Manual
- Warranty Card

4. PRODUCT OVERVIEW

Familiarize yourself with the various parts and interfaces of your PowerMax 6000.



Figure 4.1: OSCAL PowerMax 6000 Portable Power Station. This image shows the power station from an angled view, highlighting its retractable handle and wheels for easy transport.



Figure 4.2: Front Panel Layout. This image details the front panel of the PowerMax 6000, showcasing the AC outlets, DC ports, USB ports, and the central display screen, indicating its 120V/240V dual voltage support.



Figure 4.3: Durability Features. This composite image illustrates the PowerMax 6000's resistance to splashes, dust, its ability to withstand 0.8m vertical drops, and its UL94V-0 rated fire retardant material.



Figure 4.4: UPS Functionality. This image highlights the PowerMax 6000's Uninterruptible Power Supply (UPS) feature, demonstrating its use for critical devices like CPAP machines, and for maintaining power during work-from-home or emergency work situations.



Figure 4.5: Smart APP Control. This image displays a smartphone screen with the OSCAL application interface, showing how users can remotely monitor power usage and control the PowerMax 6000 via Wi-Fi or

Bluetooth.



Figure 4.6: Expandable Capacity and Output. This image illustrates the PowerMax 6000's ability to expand its capacity from 3600Wh up to 57600Wh by connecting multiple units, and highlights its 6000W output power.



Figure 4.7: Device Compatibility. This image demonstrates the PowerMax 6000's capability to charge a wide range of essential devices, including a coffee maker, electric lawn mower, toaster, and washing machine, with estimated charging times.

5. SETUP

Follow these steps for initial setup of your PowerMax 6000:

1. **Unpacking:** Carefully remove the PowerMax 6000 and all accessories from the packaging. Retain the packaging for future storage or transport.
2. **Initial Charge:** It is recommended to fully charge the PowerMax 6000 before first use. Connect the AC charging cable to a standard wall outlet and to the AC input port on the power station. The display will indicate charging status. A full charge takes approximately 1.96 hours.
3. **Placement:** Place the power station on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture.

6. OPERATING INSTRUCTIONS

This section details how to operate your PowerMax 6000 for various functions.

6.1 Powering On/Off

- To power on the unit, press and hold the main power button for a few seconds until the display illuminates.
- To power off, press and hold the main power button again until the display turns off.

6.2 Charging the Power Station

The PowerMax 6000 supports multiple charging methods:

- **AC Charging:** Connect the AC charging cable to a wall outlet. Full charge in approximately 1.96 hours.
- **Solar Charging:** Connect compatible solar panels (not included) to the solar input port using the provided solar charging cable. Ensure panels are positioned for maximum sunlight exposure.
- **Car Charging:** Use the car charging cable to connect to your vehicle's 12V/24V cigarette lighter port.
- **EV Station Charging:** The unit supports charging from EV stations.
- **Generator Charging:** The unit can be charged using a compatible generator.

6.3 Using AC/DC/USB Outputs

- **AC Output:** Press the AC ON/OFF button to activate the AC outlets. Connect your AC-powered devices. The PowerMax 6000 provides 4 AC outputs with 6000W continuous power (7200W surge) and supports 120V/240V dual voltage.
- **DC Output:** Press the 12V ON/OFF button to activate the DC output ports. Connect your 12V DC devices.
- **USB Output:** Press the USB ON/OFF button to activate the USB ports. Connect your USB-powered devices for charging.

6.4 Uninterruptible Power Supply (UPS) Function

The PowerMax 6000 features a UPS function for critical devices. When connected to an AC power source and simultaneously powering devices, it will automatically switch to battery power within 5-8 milliseconds in case of a power outage, ensuring uninterrupted operation of connected equipment.

6.5 Smart APP Control

Download the OSCAL application on your smartphone to control and monitor the PowerMax 6000 remotely via Wi-Fi or Bluetooth. The app allows you to check battery status, input/output wattage, and control various functions.

6.6 LED Light Modes

The PowerMax 6000 includes five LED light modes for various situations, including a Morse code function for emergency signaling. Refer to the device's interface for specific button controls to cycle through these modes.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your PowerMax 6000.

- **Battery Care:** The LiFePO4 battery is designed for up to 3500 charge and discharge cycles to 80% capacity. For optimal battery health, avoid fully discharging the unit frequently. Recharge the unit at least once every 3-6 months if not in regular use.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.
- **Storage:** Store the PowerMax 6000 in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is charged to approximately 50-80%.

8. TROUBLESHOOTING

If you encounter issues with your PowerMax 6000, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Battery is fully discharged; Power button not pressed long enough	Charge the unit; Press and hold the power button for 3-5 seconds
AC output not working	AC output not enabled; Overload protection activated; Device power exceeds unit capacity	Press AC ON/OFF button; Reduce connected load; Check device wattage
Charging is slow or not occurring	Charging cable not properly connected; Environmental temperature too high/low; Solar panel insufficient sunlight	Ensure secure connections; Move unit to optimal temperature range; Adjust solar panel position
App connection issues	Bluetooth/Wi-Fi off; App not updated; Unit too far from phone	Enable Bluetooth/Wi-Fi; Update OSCAL app; Move phone closer to unit

If the problem persists, please contact customer support.

9. SPECIFICATIONS

Detailed technical specifications for the OSCAL PowerMax 6000:

Feature	Specification
Brand	OSCAL
Model	PowerMax 6000
Wattage	6000W (Surge 7200W)
Battery Type	LiFePO4
Capacity	3600Wh (Expandable up to 57600Wh)
AC Output Voltage	120V/240V Dual Voltage
Full Charge Time (AC)	Approx. 1.96 hours
UPS Switchover Time	5-8 ms
Operating Temperature	-20°C to 55°C (Optimal: -10°C to 45°C)
Dimensions (L x W x H)	23.3" x 13.8" x 17.3"

Feature	Specification
Special Features	Automatic Idle Control, Smart APP Control, LED Light Modes, Rugged Construction (Splash-Proof, Dust-Proof, 0.8m Drop-Proof, UL94V-0 Fire Retardant)

10. WARRANTY AND SUPPORT

The OSCAL PowerMax 6000 comes with a **2-year warranty** from the date of purchase, ensuring your satisfaction and peace of mind. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any inquiries, please contact OSCAL customer service through the official website or the contact information provided on your warranty card. Please have your product model and purchase details ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question

Answered questions about this manual

I am connecting to my OSCAL PowerMax 6000 via Bluetooth and setting the AC input to 800W and a shutdown limit at 30%, but the battery still drains to zero. What am I doing wrong?

Based on the OSCAL PowerMax 6000 manual and app features, here are several steps to troubleshoot why your unit is draining to 0% despite your settings:Verify App Synchronization: Ensure your smartphone remains within Bluetooth...

[Read full answer](#)

Which application is used to manage the OSCAL PowerMax 6000 from a mobile phone?

To manage the OSCAL PowerMax 6000 from your mobile phone, you should download the OSCAL application. According to the user manual, the app allows you to: Pair and control the power station via Wi-Fi or Bluetooth. Monitor...

[Read full answer](#)

How do I resolve Error 1 12 on an OSCAL BP3600 expansion battery when it fails to coordinate with the PowerMax 6000 central unit?

While the standard user manual for the OSCAL PowerMax 6000 does not explicitly list "Error 1 12," this code typically indicates a communication or synchronization fault between the main unit and the BP3600 expansion...

[Read full answer](#)