EcoVolt PowerMax 6000

EcoVolt OSCAL PowerMax 6000 Portable Power Station User Manual

Model: PowerMax 6000 | Brand: EcoVolt

1. Introduction

The EcoVolt OSCAL PowerMax 6000 is a high-capacity portable power station designed to provide reliable power for various applications, including home backup, outdoor activities, and emergency situations. It features a 3600Wh capacity and a 6000W (7200W peak) AC output, supporting both 120V and 240V dual voltage output.

Key Features:

- **High Capacity & Output:** 3600Wh capacity with 6000W (7200W peak) AC output, 120V/240V dual voltage support, and 14 output sources.
- **Fast Charging:** Achieves 0-100% charge in approximately 1.96 hours with 2200W AC input and 2400W solar input.
- **Long-Lasting LiFePO4 Battery:** Durable LiFePO4 batteries with an advanced eight-layer safety BMS, offering up to 3500 charge cycles and a 25-year service life.
- **EPS Uninterruptible Power Supply:** Automatic switchover within 5-8 ms during power outages to keep equipment running.
- **Smart APP Control:** Monitor power usage and control the power station remotely via the OSCAL smartphone application.
- **Portable Design:** Equipped with smooth wheels and telescopic handles for easy transport.

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 disassemble, repair, or modify the unit.
- Do not place the unit near heat sources or in direct sunlight.

- Do not operate the unit in wet conditions or immerse it in water.
- 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 fire, use a dry powder fire extinguisher.

3. Package Contents

Verify that all items listed below are included in your package:

- PowerMax 6000 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual
- Warranty Card



Image: Contents of the PowerMax 6000 package, including the power station and various cables.

4. Product Overview

Familiarize yourself with the components and interfaces of your PowerMax 6000 portable power station.

4.1 Front Panel and Display



Image: The main unit of the PowerMax 6000, showcasing its front panel with the digital display, AC outlets, DC ports, and USB ports. The display provides real-time information on power input, output, and battery status.

The front panel includes the main digital display, AC output ports, DC output ports, and USB ports. The display provides critical information such as battery level, input/output wattage, and remaining runtime.

4.2 Portability Features



Image: A person easily transporting the PowerMax 6000 using its integrated wheels and telescopic handle, demonstrating its portability.

The PowerMax 6000 is designed for easy transport with robust wheels and a retractable handle, allowing it to be moved like a trolley case.

5. Setup

5.1 Initial Charging

Before first use, fully charge your PowerMax 6000. Connect the AC charging cable to the unit and then to a standard wall outlet. The display will indicate charging status. A full charge typically takes approximately 1.96 hours.



Image: The PowerMax 6000 connected to a wall outlet for AC charging, illustrating the fast charging capability.

5.2 Solar Charging

For solar charging, connect compatible solar panels (sold separately) to the PowerMax 6000 using the provided solar charging cable. Ensure the solar panels are placed in direct sunlight for optimal charging efficiency. The unit supports up to 2400W solar input.



Image: The PowerMax 6000 connected to solar panels for charging, demonstrating its solar compatibility.

6. Operating Instructions

6.1 Powering On/Off

To power on the unit, press and hold the main power button until the display illuminates. To power off, press and hold the same button until the display turns off.

6.2 Using AC/DC/USB Outputs

Press the respective AC, DC, or USB power buttons to activate the desired output ports. Connect your devices to the appropriate outlets. The display will show the current power output for each section.



Image: The PowerMax 6000 providing power to multiple electronic devices and tools, demonstrating its versatility.

6.3 EPS (Emergency Power Supply) Function

The PowerMax 6000 features an EPS function. When connected to a wall outlet and powering devices, it acts as an uninterruptible power supply. In the event of a power outage, the unit will automatically switch to battery power within 5-8 milliseconds, ensuring continuous operation for connected devices.

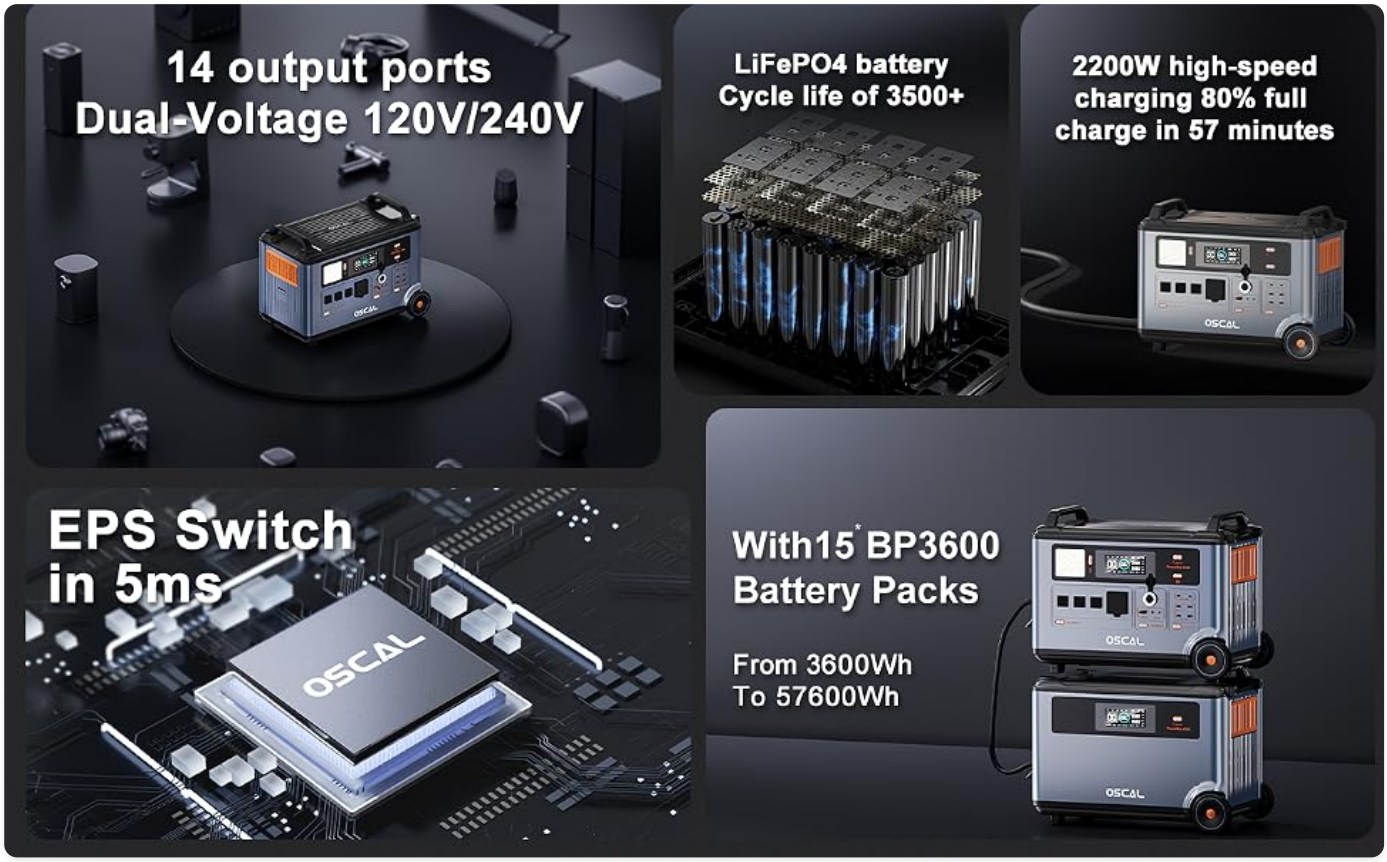


Image: Illustration of the PowerMax 6000 providing backup power to a home during an outage, highlighting its rapid EPS switchover capability.

6.4 Smart APP Control

Download the OSCAL application on your smartphone to remotely monitor and control your PowerMax 6000. The app allows you to view power usage, battery status, and adjust settings.



Image: A smartphone displaying the OSCAL app interface, showing real-time monitoring and control options for the PowerMax 6000.

The app also features a "Lighthouse-like Signal Light" function, allowing you to input text via Morse code for communication, which the unit will blink using its signal light.

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Video: Demonstration of the PowerMax 6000's "Lighthouse-like Signal Light" feature, where text input via the app is converted to Morse code blinks for communication.

6.5 Parallel Connection (Expandable Capacity)

The PowerMax 6000 supports parallel connection with additional expansion batteries (sold separately) to increase its total capacity up to 57.6kWh. Refer to the expansion battery manual for detailed connection instructions.



Image: Multiple PowerMax 6000 units connected in parallel with expansion batteries, illustrating the expandable capacity feature.

7. Maintenance

- **Cleaning:** Use a dry, soft cloth to wipe the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Storage:** Store the PowerMax 6000 in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to approximately 50-80% every 3-6 months to prolong battery life.
- **Battery Care:** Avoid fully discharging the battery frequently. Regular partial discharges and recharges are beneficial for LiFePO4 battery health.

8. Troubleshooting

Problem	Possible Cause	Solution
Unit not turning on	Battery 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; Device power exceeds unit's capacity; Overload protection activated.	Press the AC power button; Reduce connected load; Disconnect device and restart AC output.
Slow charging via solar	Insufficient sunlight; Solar panels not properly connected; Panels not compatible.	Ensure panels are in direct sunlight; Check connections; Use recommended solar panels.
App connection issues	Bluetooth/Wi-Fi off; App not updated; Unit not discoverable.	Enable Bluetooth/Wi-Fi; Update app; Restart unit and app.

If the problem persists, please contact customer support.

9. Specifications

Feature	Detail
Brand	EcoVolt
Model Name	PowerMax 6000
Capacity	3600Wh
AC Output	6000W (7200W Peak)
Voltage	120V/240V Dual Voltage (AC)
Battery Type	LiFePO4
Cycle Life	3500+ cycles to 80% capacity
AC Charging Input	2200W Max
Solar Charging Input	2400W Max
EPS Switchover Time	5-8 ms
Total Power Outlets	14
Product Dimensions	13.8"L x 17.5"W x 23.2"H
Material	ABS, Plastic
UPC	764606892703

10. Warranty and Support

The EcoVolt OSCAL PowerMax 6000 comes with a **5-year warranty**, ensuring peace of mind and product reliability. For technical support, warranty claims, or any inquiries, please contact EcoVolt customer service through their official website or the contact information provided in your warranty card.

You can also visit the EcoVolt Store on Amazon for more product information and support resources.

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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