EcoVolt PowerMax 6000

EcoVolt OSCAL PowerMax 6000 Solar Generator User Manual

Model: PowerMax 6000

1. Introduction

1.1 Product Overview

The EcoVolt OSCAL PowerMax 6000 is a high-capacity solar generator designed to provide reliable power for various applications, from home backup to outdoor activities. It features a 3600Wh LiFePO4 battery, 6000W AC output (9000W peak), and supports dual voltage (120V/240V). This manual provides essential information for the safe and efficient operation of your PowerMax 6000.



Image 1.1: The EcoVolt OSCAL PowerMax 6000 Solar Generator with accompanying solar panels and a smartphone showing the control application.

1.2 Intended Use

This solar generator is intended for use as a portable power source for electronic devices and appliances. It is suitable for emergency home backup, outdoor camping, commercial use, and other situations requiring a stable and high-capacity power supply. Do not use this product for purposes other than its intended use.

2. Safety Information

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

- **General Safety:** Keep the device away from water, heat sources, and direct sunlight. Operate in a well-ventilated area.
- **Electrical Safety:** Do not disassemble, repair, or modify the unit. Ensure all cables are properly connected and undamaged. Avoid touching exposed wires or terminals.
- **Battery Safety:** The PowerMax 6000 uses a LiFePO4 battery. Do not puncture, drop, or expose the battery to extreme

temperatures. If the battery shows signs of damage or leakage, discontinue use immediately.

- **Children and Pets:** Keep the device out of reach of children and pets.
- **Ventilation:** Ensure adequate airflow around the unit during operation to prevent overheating. Do not block ventilation openings.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- PowerMax 6000 Solar Generator
- 2 x 400W Solar Panels
- AC Charging Cable
- Solar Charging Cable
- Car Charging Cable
- User Manual (this document)
- Warranty Card



Image 3.1: Overview of the PowerMax 6000, its dimensions, included accessories, and available output ports.

4. Product Features

The EcoVolt OSCAL PowerMax 6000 is equipped with advanced features for versatile and reliable power delivery.

- **High Output & Large Capacity:** Provides 6000W continuous AC output (9000W peak) with a 3600Wh LiFePO4 battery, capable of powering a wide range of devices.
- **Dual Voltage Output:** Supports both 120V and 240V AC output, making it compatible with various household and

commercial appliances.



Image 4.1: The PowerMax 6000 providing dual voltage power to a home.

- **Ultra-High Power for Diverse Devices:** Capable of powering over 99% of electronic devices, including heavy-duty tools.



Image 4.2: The PowerMax 6000 powering various high-wattage tools in a workshop.

- **Fast Charging:** Achieves 0-100% charge in approximately 1.96 hours via 2200W AC input. Combined AC and 2400W solar input can fully charge the unit in 1.44 hours.



Image 4.3: Visual representation of the PowerMax 6000's fast AC and combined AC+Solar charging capabilities.

- **Long-Lasting LiFePO4 Battery:** Utilizes durable LiFePO4 battery technology with an advanced eight-layer safety BMS, offering over 3,500 charge cycles for extended lifespan.
- **Smart App Control:** Monitor power usage and control the power station remotely via a dedicated smartphone application.
- **EPS (Emergency Power Supply) Function:** Features a rapid 5-8ms automatic switchover to battery power during outages, ensuring uninterrupted operation for critical devices.

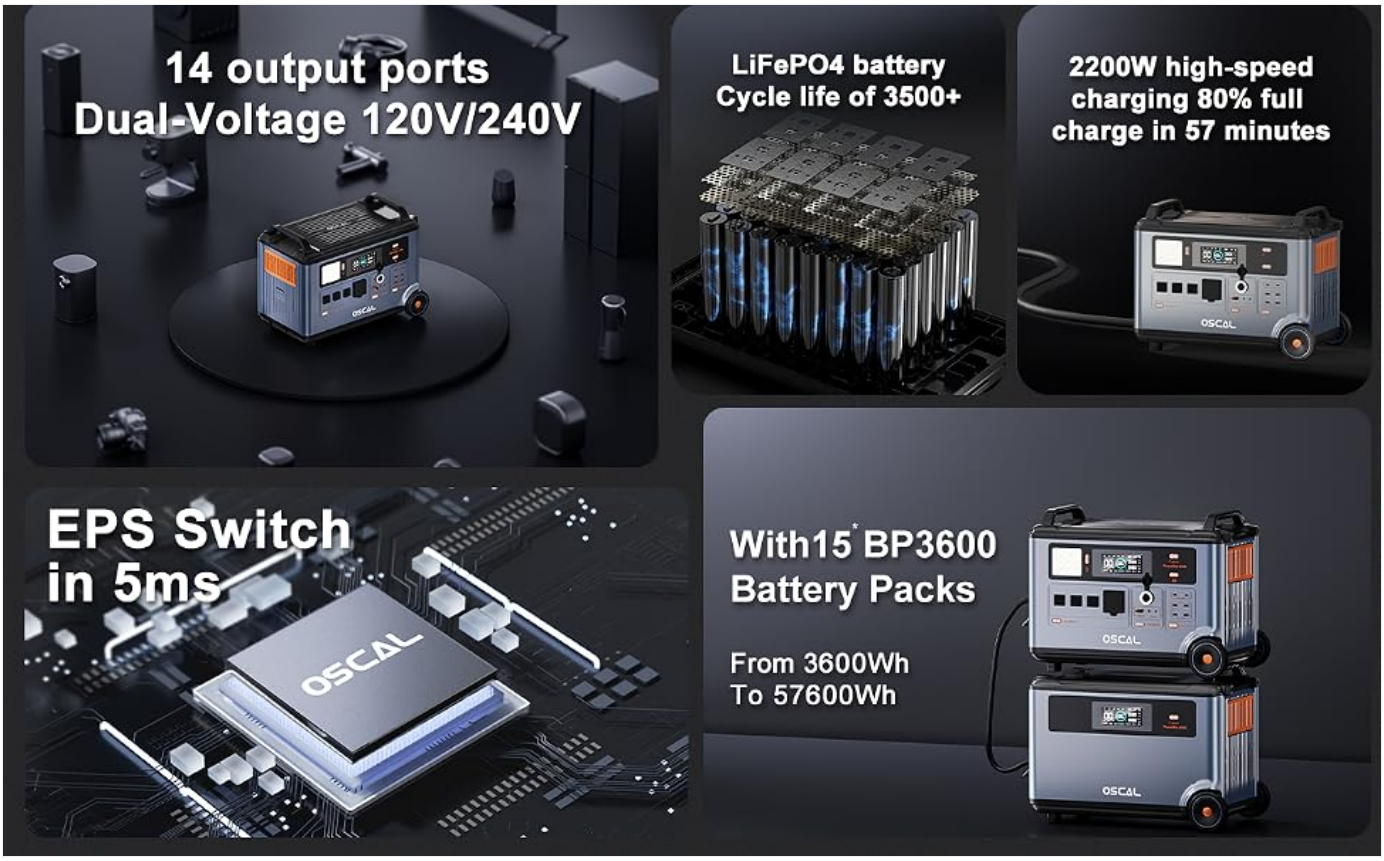


Image 4.4: A summary of the PowerMax 6000's core features, including battery type, charging speed, EPS, and expandability.

- **Expandable Capacity:** The PowerMax 6000 can be expanded from 3600Wh up to 57600Wh by connecting up to 15 BP3600 expansion batteries (sold separately).



Image 4.5: The PowerMax 6000 demonstrating its expandable capacity with additional battery packs.

- **Portable Design:** Equipped with wide wheels and an ergonomic pull handle for easy transport.



Image 4.6: The portable design of the PowerMax 6000, highlighting its wheels and pull handle for convenient transport.

5. Setup Guide

5.1 Unpacking

Carefully remove all components from the packaging. Inspect the unit and accessories for any signs of damage. Retain the packaging for future storage or transport.

5.2 Initial Charging

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

5.3 Connecting Solar Panels

To charge using solar power, connect the solar charging cable to the solar panels and then to the PowerMax 6000's solar input port. Position the solar panels in direct sunlight for optimal charging efficiency. The display will show solar input wattage.

6. Operating Instructions

6.1 Powering On/Off

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

6.2 Using AC Outputs

Press the AC power button to activate the AC outlets. Plug your appliances into the appropriate 120V or 240V AC ports. Ensure the total wattage of connected devices does not exceed 6000W to prevent overload.

6.3 Using DC and USB Outputs

Press the DC power button to activate the DC and USB outputs. Connect your devices to the USB-A, USB-C, Car Charger, or DC 5521 ports as needed.

6.4 App Control

Download the OSCAL application on your smartphone. Follow the in-app instructions to pair your PowerMax 6000. The app allows you to monitor power usage, control charging speed, view remaining battery power, and personalize electricity usage settings.

Image 6.1: The OSCAL smartphone application interface for controlling the PowerMax 6000.



Image 6.2: Demonstrating remote control of the PowerMax 6000 via the smart app in an outdoor setting.

6.5 Parallel Connection

For increased capacity and output, the PowerMax 6000 supports parallel connection with additional BP3600 expansion batteries (sold separately). Refer to the expansion battery manual for detailed connection instructions. This allows for capacities up to 57600Wh.



Image 6.3: Multiple PowerMax units connected for expanded power capacity in a camping environment.

7. Maintenance

7.1 Battery Care

- To prolong battery life, fully charge the unit at least once every three months, even if not in use.
- Avoid completely draining the battery frequently.
- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.

7.2 Cleaning and Storage

- Wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure all ports are free of dust and debris.
- When storing for extended periods, ensure the unit is charged to approximately 50-80% and stored in a temperature-controlled environment.

8. Troubleshooting

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

Problem	Possible Cause	Solution
No power output from AC/DC/USB ports	Output port not activated; Unit is off; Battery depleted; Overload protection triggered.	Press the respective output button; Turn on the unit; Recharge the unit; Reduce connected load.
Slow charging via AC or Solar	Charging cable issues; Insufficient solar input (panels not in direct sun, dirty panels); AC input power too low.	Check cable connections; Reposition solar panels for maximum sunlight; Clean solar panels; Ensure AC source is stable.
App connection issues	Bluetooth/Wi-Fi off; Unit not in pairing mode; App outdated.	Ensure Bluetooth/Wi-Fi is enabled on phone; Follow app pairing instructions; Update the app to the latest version.
Unit overheating	Blocked ventilation; Excessive load; High ambient temperature.	Ensure clear ventilation paths; Reduce connected load; Move unit to a cooler environment.

If the problem persists after attempting these solutions, please contact customer support.

9. Technical Specifications

Below are the detailed technical specifications for the EcoVolt OSCAL PowerMax 6000 Solar Generator.

Feature	Specification
Brand	EcoVolt
Model Name	PowerMax 6000
Wattage	6000 watts (Running), 9000 watts (Starting/Peak)
Fuel Type	Solar
Power Source	Solar Powered
Voltage	110 Volts (Output), 120V/240V (Dual Voltage Feature)
Total Power Outlets	14
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Cycles	3500+ cycles
AC Charging	2200W (Fast Charging)
Solar Charging	Max. 2400W
EPS Switchover Time	5-8 ms

Feature	Specification
Product Dimensions (LxWxH)	13.8"L x 17.5"W x 23.2"H
Material	ABS, Plastic
Color	Black
UPC	764606892642

10. Warranty and Support

10.1 Warranty Information

The EcoVolt OSCAL PowerMax 6000 Solar Generator comes with a **2-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your PowerMax 6000, please contact EcoVolt customer support. You can find more information and contact details by visiting the official EcoVolt Store:
Visit the EcoVolt Store

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