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EcoVolt PowerMax 3600

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Model: PowerMax 3600

1. INTRODUCTION

Thank you for choosing the EcoVolt OSCAL PowerMax 3600 Solar Generator. This portable power station is designed to provide reliable power for various applications, from home backup to outdoor adventures. Featuring a 3600Wh capacity and 3600W output, LiFePO4 battery technology, and smart app control, it offers a versatile and durable energy solution. This manual provides essential information for safe and efficient operation, setup, maintenance, and troubleshooting.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the PowerMax 3600. 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 heat sources, direct sunlight, and flammable materials.
- Do not expose the unit to rain or moisture.
- Ensure proper ventilation during use and charging.
- 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. Do not use water.

3. PRODUCT OVERVIEW

The EcoVolt OSCAL PowerMax 3600 is a robust portable power station equipped with multiple output ports and advanced features for reliable power delivery.



Image: The main unit of the EcoVolt OSCAL PowerMax 3600 Solar Generator, showcasing its design and control panel.

3.1 Key Features

- **High Capacity:** 3600Wh LiFePO4 battery.
- **High Output:** 3600W AC output (6000W peak).
- **Fast Charging:** 1800W AC input, 1600W solar input.
- **EPS Function:** 5-8ms automatic switchover for uninterrupted power.
- **App Control:** Remote monitoring and control via smartphone application.
- **Portability:** Integrated pull handle and wheels for easy transport.
- **Expandable:** Capacity can be expanded up to 57600Wh with additional batteries.

3.2 Output Ports

Versatile Output Ports for You



Image: A detailed diagram illustrating the various output ports available on the PowerMax 3600.

- **AC Output:** 4 x AC outlets (3 x 20A, 1 x 30A TT-30), 100-120Vac (50Hz/60Hz).
- **USB-A Output:** 1 x 12V Max, 3 x 18W Max (Fast Charging).
- **USB-C Output:** 2 x 100W Max (PD).
- **Car Charger Output:** 1 x 12V, 10A, 120W Max.
- **DC5521 Output:** 2 x 12V, 3A, 36W.
- **Anderson Output:** 1 x 12.6V, 30A, 378W Max.

4. SETUP

4.1 Unpacking and Initial Inspection

- Carefully remove the PowerMax 3600 and all accessories from the packaging.
- Verify that all components listed in the 'What's in the Box' section are present.
- Inspect the unit for any visible damage. If damage is found, do not operate and contact customer support.

4.2 Initial Charging

It is recommended to fully charge the PowerMax 3600 before first use to optimize battery performance.

- Connect the AC charging cable to the AC input port on the generator and then to a standard wall outlet.
- The display will indicate charging status. The unit will reach 100% charge in approximately 1.2 hours.

5. OPERATING INSTRUCTIONS

5.1 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 main power button until the display turns off.

5.2 Connecting Devices

- Activate the desired output section (AC, USB, DC) by pressing its respective ON/OFF button. The indicator light will illuminate.
- Plug your devices into the corresponding output ports.
- Ensure the total power consumption of connected devices does not exceed the generator's rated output (3600W).

5.3 Smart App Control

The PowerMax 3600 can be controlled and monitored via a smartphone application.



Image: A smartphone screen showing the EcoVolt application interface for managing the power station.

- Download the OSCAL application from your smartphone's app store.
- Follow the in-app instructions to pair your PowerMax 3600 via Bluetooth or Wi-Fi.
- Use the app to monitor power usage, battery status, and remotely control output ports.

5.4 Emergency Power Supply (EPS) Mode

The EPS function provides an uninterruptible power supply for critical devices.

Ultra-Fast EPS Mode, Auto-Switch 0.01S



*In the event of a neighborhood power outage, a EPS(less than 10ms) can provide uninterrupted power o ensure the continuity of your event or work.

Image: The PowerMax 3600 providing backup power to a CPAP machine, demonstrating its EPS capability during an outage.

- When the PowerMax 3600 is connected to an AC wall outlet and devices are plugged into its AC output, it acts as a pass-through power source.
- In the event of a power outage, the unit automatically switches to battery power within 5-8 milliseconds, ensuring continuous operation for connected devices.

6. CHARGING THE POWERMAX 3600

The PowerMax 3600 supports multiple charging methods.

Faster Charging Speed




1800W AC Charging
80% within **57 minutes**


1600W PV Charging
100% within **2.7h**


AC+PV Charging
100% within **1.1h**

Image: The PowerMax 3600 being charged simultaneously by AC power and solar panels, illustrating its fast charging capabilities.

6.1 AC Charging

- Connect the AC charging cable to the AC input port and a wall outlet.
- Charging time from 0% to 100% is approximately 1.2 hours (1800W input).

6.2 Solar Charging

- Connect compatible solar panels (up to 1600W max) to the solar input port using the provided solar charging cable.
- Ensure solar panels are positioned for maximum sunlight exposure.
- Charging time from 0% to 100% with 1600W solar input is approximately 2.7 hours.

6.3 Car Charging

- Connect the car charging cable to the car charger input port and your vehicle's 12V cigarette lighter socket.
- Charging speed will vary depending on the vehicle's output.

7. MAINTENANCE AND STORAGE

7.1 General Maintenance

- Clean the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- Regularly check ports for dust or debris and clean if necessary.

7.2 Storage

- Store the PowerMax 3600 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 maintain battery health.
- Avoid storing the unit in a completely discharged state.

8. TROUBLESHOOTING

If you encounter issues with your PowerMax 3600, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Battery is completely discharged; Power button not held long enough	Charge the unit; Press and hold the power button for 3-5 seconds
AC output not working	AC output not activated; Overload protection triggered; Device power exceeds 3600W	Press the AC ON/OFF button; Disconnect devices, restart unit; Reduce connected load
Slow charging via solar	Insufficient sunlight; Panels not properly connected; Shading on panels	Adjust panel angle/position; Check connections; Clear any obstructions
App connection issues	Bluetooth/Wi-Fi off; App not updated; Unit too far from phone	Ensure Bluetooth/Wi-Fi is on; Update app; Move phone closer to unit

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

9. SPECIFICATIONS

Feature	Specification
Brand	EcoVolt
Model Name	PowerMax 3600
Battery Type	LiFePO4
Capacity	3600Wh
AC Output	3600W (6000W Peak), 100-120Vac (50Hz/60Hz)
AC Input (Charging)	1800W Max
Solar Input (Charging)	11-150V, 15A Max, 1600W Max
USB-A Output	1 x 12V Max, 3 x 18W Max
USB-C Output	2 x 100W Max (PD)
Car Charger Output	12V, 10A, 120W Max
DC5521 Output	2 x 12V, 3A, 36W
Anderson Output	12.6V, 30A, 378W Max
Dimensions (L x W x H)	23.2" x 13.8" x 17.5" (59 x 35 x 44 cm)
Net Weight	Approximately 97 lbs (44.45 kg)
Operating Temperature	Refer to product label for specific range
Warranty	5 Year

10. WHAT'S IN THE BOX

What's in the box

Power Station/Solar charging cable/AC charging cable
User Manual/Car charging cable



Image: An illustration showing the PowerMax 3600 unit and its included accessories.

- EcoVolt OSCAL PowerMax 3600 Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual
- Warranty Card

11. WARRANTY AND SUPPORT

11.1 Warranty Information

The EcoVolt OSCAL PowerMax 3600 comes with a **5-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

11.2 Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact EcoVolt customer support through the official website or your purchase platform. Have your model number and purchase date ready when contacting support.