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ECOGREAT PowerMax 3600

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Model: PowerMax 3600

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation of your ECOGREAT OSCAL PowerMax 3600 Solar Generator. Please read this manual thoroughly before using the product and retain it for future reference. Proper use ensures optimal performance and longevity of your device.

2. IMPORTANT SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent injury or damage to the device:

- Do not expose the unit to water, rain, or moisture.
- Use the generator in a well-ventilated area to prevent overheating.
- Keep the device away from flammable materials, heat sources, and direct sunlight.
- Do not disassemble, repair, or modify the unit yourself. Contact qualified service personnel for assistance.
- Ensure all cables are properly connected and free from damage before operation.
- Keep out of reach of children and pets.
- Avoid dropping or subjecting the unit to strong impacts.
- Do not insert foreign objects into any ports or openings.

3. PACKAGE CONTENTS

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

- OSCAL PowerMax 3600 Portable Power Station
- AC Charging Cable
- Car Charging Cable

- Solar Charging Cable
- User Manual



Figure 3.1: Package contents and dimensions of the PowerMax 3600.

4. PRODUCT FEATURES

The ECOGREAT OSCAL PowerMax 3600 is a high-capacity solar generator designed for versatile power needs. Key features include:

- **High Capacity & Output:** 3600Wh battery capacity with 3600W AC output (7200W surge peak) to power a wide range of appliances.
- **Multiple Output Ports:** Equipped with 14 output sources, including 4 AC outlets, USB-A, USB-C, DC5521, car charger, and Anderson output.
- **Fast Charging:** Achieves 0-100% charge in approximately 1.96 hours using AC input, or 1.44 hours with 1800W AC input and 1600W solar input.
- **Durable LiFePO4 Battery:** Long-lasting LiFePO4 battery chemistry provides up to 3500 charge cycles, ensuring a service life of up to 25 years.

- **Advanced Battery Management System (BMS):** Eight-layer safety BMS protects against overcharge, over-discharge, over-voltage, over-current, short-circuit, and temperature fluctuations.
- **Uninterruptible Power Supply (EPS):** Features a 5-8 ms fast switchover to battery power during outages, maintaining continuous operation for connected devices.
- **Smart APP Control:** Monitor power usage and control the power station remotely via a smartphone application (Bluetooth/Wi-Fi).
- **Portable Design:** Integrated pull handle and wheels for easy transport.



Figure 4.1: The PowerMax 3600 providing power to various household appliances.

What's in the box

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



Figure 4.2: Overview of the PowerMax 3600's output ports.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the PowerMax 3600. 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 from 0% takes approximately 1.96 hours.

5.2 Solar Panel Connection (Optional)

To charge using solar panels, connect the solar charging cable to your solar panels and then to the PowerMax 3600's solar input port. Ensure the solar panels are placed in direct sunlight for optimal charging efficiency. The unit supports up to 1600W solar input.

Faster Charging Speed



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



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



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



Figure 5.1: Charging the PowerMax 3600 using solar panels.

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 screen will illuminate upon activation.

6.2 Using AC Outlets

Press the AC power button to activate the AC outlets. Plug your devices into the desired AC ports. Ensure the total wattage of connected devices does not exceed 3600W (or 7200W surge).

6.3 Using DC and USB Ports

Press the DC or USB power buttons to activate the respective output ports. Connect your DC or USB-powered devices. The unit provides various USB-A, USB-C, and DC5521 outputs.

6.4 EPS Function (Uninterruptible Power Supply)

When the PowerMax 3600 is connected to an AC wall outlet and has devices plugged into its AC output, it can function as an EPS. In the event of a power outage, the unit will automatically switch to battery power within 5-8 milliseconds, providing uninterrupted power to connected devices.

6.5 Smart APP Control

Download the OSCAL application from your smartphone's app store. Pair your PowerMax 3600 via Bluetooth or Wi-Fi. The app allows you to monitor battery status, input/output power, and remotely control various functions of the power station.



Figure 6.1: Controlling the PowerMax 3600 with the smartphone application.

7. MAINTENANCE

7.1 Cleaning

Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and

debris.

7.2 Storage

If storing the unit for an extended period, charge it to approximately 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight and extreme temperatures.

7.3 Battery Care

The integrated LiFePO4 battery is designed for long life. Avoid fully discharging the battery frequently. For optimal performance, keep the battery charged above 20% when possible.

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 pressed correctly.	Charge the unit using the AC charging cable. Ensure the power button is pressed and held for a few seconds.
AC outlets not providing power	AC output not activated; Overload protection triggered; Device wattage exceeds limit.	Press the AC power button to activate. Reduce the number or wattage of connected devices. Restart the unit.
Solar charging not working	Solar panels not in direct sunlight; Cables incorrectly connected; Damaged solar panel or cable.	Reposition solar panels for maximum sunlight exposure. Check all cable connections. Inspect cables and panels for damage.
APP connection issues	Bluetooth/Wi-Fi off; Unit too far from phone; App not updated.	Ensure Bluetooth/Wi-Fi is enabled on your phone. Move closer to the unit. Update the OSCAL app to the latest version.

9. SPECIFICATIONS

Specification	Value
Brand	ECOGREAT
Model Name	PowerMax 3600
Wattage	3600 watts (7200W Surge)
Power Source	Corded Electric, Solar
Item Weight	14 Kilograms
Voltage	120 Volts
Special Feature	Fast Charging, APP Control, EPS
Battery Type	LiFePO4
Charging Time (AC)	Approx. 1.96 hours (0-100%)
AC Output Ports	4
UPC	727073479037

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The ECOGREAT OSCAL PowerMax 3600 Solar Generator comes with a **5-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures peace of mind regarding the product's quality and performance. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your PowerMax 3600, please contact ECOGREAT customer support. Refer to the contact information provided on the official ECOGREAT website or your purchase documentation.

Online Support: Visit the official ECOGREAT website for FAQs, troubleshooting guides, and contact forms.

Email Support: [Insert Manufacturer's Support Email Here, if available]

Phone Support: [Insert Manufacturer's Support Phone Number Here, if available]