**EcoVolt PowerMax 2400**

# EcoVolt OSCAL PowerMax 2400 Solar Power Station User Manual

## 1. Introduction

This manual provides essential information for the safe and efficient operation of your EcoVolt OSCAL PowerMax 2400 Solar Power Station. Please read this manual thoroughly before using the product and retain it for future reference. The PowerMax 2400 is a high-capacity portable power station designed to provide reliable power for various applications, complemented by solar panels for renewable energy charging.

## 2. Safety Instructions

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water.
- Use only the provided or approved accessories.
- Keep the unit away from children and pets.
- Do not use the unit if it is damaged or has been dropped.
- Ensure proper ventilation during use and charging to prevent overheating.
- Dispose of the product according to local regulations.

## 3. Package Contents

Verify that all items are present in your package:

- EcoVolt OSCAL PowerMax 2400 Power Station
- 2 x 400W Solar Panels
- 1 x 200W Solar Panel
- AC Charging Cable
- Solar Charging Cable (MC4 to DC)

- Car Charging Cable
- User Manual

## 4. Product Overview

Familiarize yourself with the components of your PowerMax 2400 and accompanying solar panels.




*Figure 1: EcoVolt OSCAL PowerMax 2400 portable power station with solar panels. The power station features various output ports, a digital display, and cooling vents. The solar panels are shown unfolded, ready for deployment.*

### 4.1 PowerMax 2400 Main Unit

- **AC Output Ports:** Standard household outlets for AC appliances.
- **DC Input Port:** For charging via solar panels or car charger.
- **USB-A & USB-C Ports:** For charging mobile devices and other USB-powered electronics.
- **Digital Display:** Shows battery level, input/output power, and error indicators.
- **Cooling Vents:** Essential for heat dissipation during operation.
- **LED Light:** Integrated light for illumination.

### 4.2 Solar Panels

- Foldable design for portability.
- Equipped with MC4 connectors for efficient power transfer.
- Designed to capture solar energy and convert it into DC power for the PowerMax 2400.

## 5. Setup

### 5.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect the power station and solar panels for any signs of damage. If any damage is found, do not use the product and contact customer support.

### 5.2 Initial Charging

Before first use, fully charge the PowerMax 2400. This helps to calibrate the battery management system.

- **AC Charging:** Connect the AC charging cable to the power station's AC input port and then to a standard wall outlet. The display will indicate charging status.
- **Solar Charging:** Unfold the solar panels and position them in direct sunlight. Connect the solar charging cable (MC4 to DC) from the solar panels to the DC input port on the power station. Ensure connections are secure.

### 5.3 Placement

Place the power station on a flat, stable surface with adequate ventilation. Avoid placing it in direct sunlight or near heat sources during operation or charging, especially when using AC charging.

## 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 digital display will illuminate upon activation.

### 6.2 Charging the Power Station

- **AC Wall Outlet Charging:** Connect the AC charging cable to the AC input port and a wall outlet. The display will show input wattage and charging progress.
- **Solar Panel Charging:** Connect the solar panels to the DC input port using the provided solar charging cable. Optimize panel angle for maximum sunlight exposure. The display will show solar input wattage.
- **Car Charging:** Connect the car charging cable to the DC input port and your vehicle's 12V auxiliary power outlet.

### 6.3 Using Output Ports

To use any output port, ensure the power station is turned on and activate the specific output section (AC, DC, or USB) using its dedicated button.

- **AC Output:** Press the AC ON/OFF button. Plug your AC appliances into the AC outlets. The display will show AC output wattage.
- **DC Output:** Press the DC ON/OFF button. Plug your 12V DC devices into the DC ports.
- **USB Output:** Press the USB ON/OFF button. Connect your USB devices to the USB-A or USB-C ports.

**Note:** Always ensure the total power consumption of connected devices does not exceed the PowerMax 2400's rated output capacity (2400W).

## 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. Store in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the unit is turned off before storage.

### 7.3 Battery Care

The PowerMax 2400 uses a high-performance battery. To maximize its lifespan, avoid fully discharging the battery frequently and keep it within recommended operating temperatures.

## 8. Troubleshooting

- **Unit not turning on:** Ensure the battery is charged. If not, connect to a power source.
- **No output from ports:** Check if the specific output (AC, DC, USB) is activated. Ensure the connected device's power consumption does not exceed the unit's capacity.
- **Slow charging:** For solar charging, ensure panels are in direct sunlight and free of obstructions. Check cable connections.
- **Overload warning:** Disconnect some devices to reduce the load. The unit may automatically shut down to prevent damage.
- **Overheating:** Ensure cooling vents are not blocked. Move the unit to a cooler environment.

If issues persist, contact EcoVolt customer support.

## 9. Specifications

| Feature | Detail |
|---|---|
| Model Number | PowerMax 2400 |
| Brand | EcoVolt |
| Product Dimensions | 18 x 19 x 15 inches |
| Rated Output Power | 2400W |
| Battery Capacity | 20000 Milliamp Hours |
| Voltage | 110V |
| Special Features | Fast Charging |
| Other Display Features | Wireless |

| | |
|---|---|
| Connector Type | USB Type C |
| Manufacturer | Zhuhai Initial Entropy Energy Co., Ltd. |
| Date First Available | August 8, 2025 |

## 10. Warranty and Support

EcoVolt products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official EcoVolt website. Please have your model number (PowerMax 2400) and purchase date available when contacting support.

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