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ECOGREAT PowerMax 1800SE

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Model: PowerMax 1800SE

1. INTRODUCTION

The ECOGREAT OSCAL PowerMax 1800SE is a portable solar generator designed to provide reliable power for various applications, including home backup, outdoor camping, and RV travel. It features a 1024Wh LiFePO4 battery, 1800W rated AC output (3600W surge), and multiple charging options. This manual provides essential information for safe and efficient operation of your device.

2. SAFETY INSTRUCTIONS

- **General Safety:** Do not disassemble, repair, or modify the unit. Do not expose the unit to fire or direct heat. Avoid extreme temperatures, direct sunlight, or humid environments. Ensure proper ventilation during use.
- **Water Exposure:** Do not immerse the unit in water or expose it to heavy rain. The unit has an IP54 waterproof rating, meaning it is protected from dust and splashing water, but not full immersion.
- **Children and Pets:** Keep the unit out of reach of children and pets.
- **Ventilation:** Do not block the ventilation openings. Overheating can cause malfunction or fire.
- **Battery Safety:** The LiFePO4 battery is designed for safety and longevity. However, avoid puncturing, dropping, or crushing the unit.

3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- OSCAL PowerMax 1800SE Power Station
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual

Your Power, Your Choice, All-in-One Charging for Endless Adventures



Image: OSCAL PowerMax 1800SE with included accessories and dimensions.

4. PRODUCT OVERVIEW

4.1. Main Unit and Display

The PowerMax 1800SE features a clear LED display that shows real-time information such as battery level, input/output wattage, and estimated remaining runtime. The unit is designed with integrated handles for portability.

4.2. Output Ports

The device is equipped with 11 versatile output ports to power a wide range of electronics:

- 3 x AC Outlets (1800W Rated)
- 2 x USB-A Ports (15W Max, 18W Max)
- 2 x USB-C PD Fast Charging Ports (100W Max each)
- 2 x DC5521 Outlets (78W Max)
- 1 x Cigarette Lighter Port (130W Max)
- 1 x Wireless Charging Pad (15W)

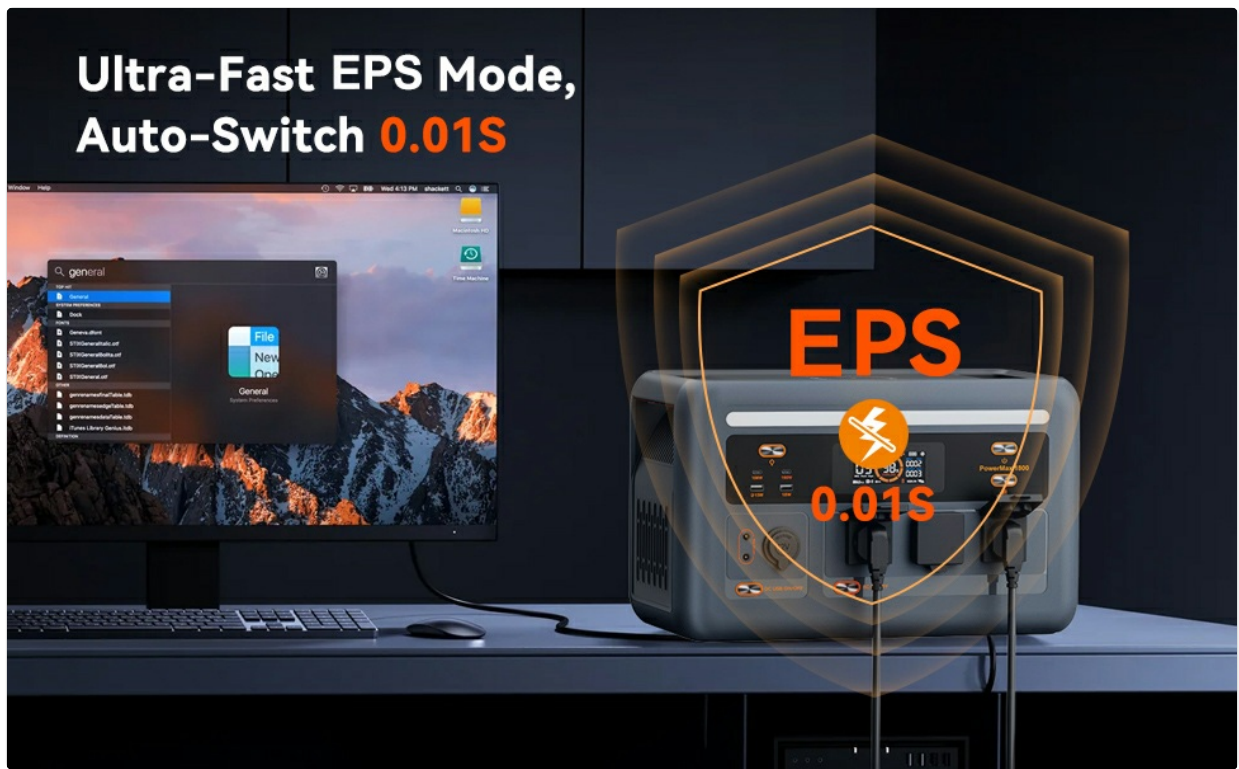


Image: OSCAL PowerMax 1800SE showing various output ports and their specifications.

5. SETUP

5.1. Initial Charging

Before first use, fully charge the PowerMax 1800SE using the provided AC charging cable. The unit supports fast charging, reaching 0-80% in approximately 1 hour with 800W AC input.

5.2. Solar Charging

Connect a compatible solar panel (up to 800W Max) using the provided solar charging cable. The unit can achieve full solar charging in approximately 1.5 hours under optimal sunlight conditions.

5.3. App Control Setup

Download the dedicated mobile application. Connect your PowerMax 1800SE via Bluetooth or Wi-Fi to monitor battery status, control input/output power, and manage settings remotely.



Image: OSCAL PowerMax 1800SE being charged via solar panel and AC, illustrating multiple charging options.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off

Press and hold the main power button to turn the unit on or off. Individual output sections (AC, DC, USB) have their own power buttons.

6.2. Using AC Outlets

Press the AC ON/OFF button to activate the three AC outlets. Plug in your devices. Ensure the total wattage does not exceed 1800W (or 3600W surge capacity).

6.3. Using USB and DC Ports

Press the DC USB ON/OFF button to activate the USB-A, USB-C PD, DC5521, and cigarette lighter ports. Connect your compatible devices for charging or power.

6.4. Wireless Charging

Place your Qi-compatible device on the wireless charging pad located on top of the unit. Ensure the device is properly aligned for charging to begin.

6.5. UPS Function

The PowerMax 1800SE features an Ultra-Fast UPS (Uninterruptible Power Supply) mode, switching to battery power in just 0.01 seconds during a power outage. This ensures continuous operation for connected devices like computers and medical equipment.

Output port

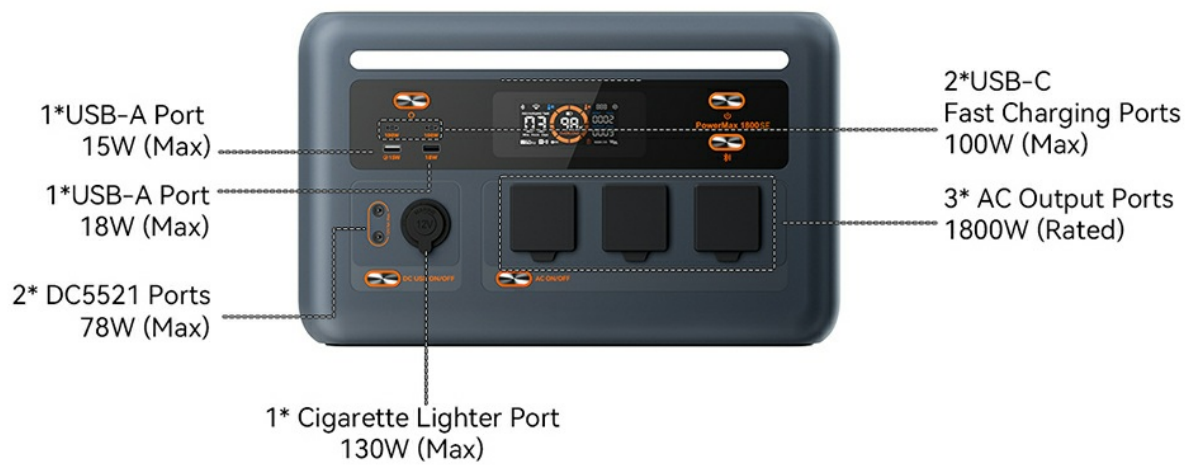


Image: OSCAL PowerMax 1800SE connected to a computer setup, demonstrating its UPS backup function.

6.6. Smart App Control

Use the mobile app to monitor the power station's status, adjust settings, and control outputs from your smartphone. This allows for convenient management, especially when the unit is in a remote location.

Well-organized 10 Output Ports

Power all your devices — from smartphones, tablets, cameras, and drones to lighting and car accessories. With instant-on reliability, enjoy stable power wherever you are.



Image: A hand holding a smartphone displaying the OSCAL PowerMax 1800SE app interface, with the power station and solar panel in the background.

6.7. Integrated Light

The unit includes an integrated light with multiple modes, including a standard illumination mode, an SOS mode for emergencies, and a strobe mode. Activate and cycle through modes using the dedicated light button.

7. MAINTENANCE

7.1. Battery Care

The LiFePO4 battery is designed for over 3500 charge/discharge cycles. To maximize battery life, avoid fully discharging the unit regularly. Store the unit in a cool, dry place and recharge it every 3-6 months if not in use.

7.2. Cleaning

Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.

7.3. Storage

When storing the unit for extended periods, ensure it is charged to approximately 50-80% and stored in a temperature-controlled environment away from direct sunlight and moisture.

8. TROUBLESHOOTING

- **Unit Not Turning On:** Ensure the battery is charged. If the unit has been stored for a long time, it may require a full charge.
- **No Output from Ports:** Check if the individual output sections (AC, DC, USB) are activated. Ensure the connected device is within the power limits of the port and the unit.
- **Slow Charging:** Verify that the charging cable is securely connected and the power source is adequate. For solar charging, ensure the solar panels are in direct sunlight and free from obstructions.
- **App Connectivity Issues:** Ensure Bluetooth or Wi-Fi is enabled on your smartphone and the power station. Try restarting both the app and the power station.

9. SPECIFICATIONS

| Feature | Specification |
|----------------------|--|
| Model | PowerMax 1800SE |
| Battery Capacity | 1024Wh LiFePO4 (Expandable to 2048Wh) |
| AC Output | 1800W (Rated), 3600W (Surge) |
| USB-C PD Output | 2 x 100W Max |
| USB-A Output | 1 x 15W, 1 x 18W |
| DC Output | 2 x DC5521 (78W Max), 1 x Cigarette Lighter (130W Max) |
| Wireless Charging | 15W |
| AC Input Charging | 800W Max (0-80% in 1 hour) |
| Solar Input Charging | 800W Max (Full charge in 1.5 hours) |
| Weight | 14kg / 30lb |
| Dimensions | 9.3"L x 10"W x 16.5"H |
| Waterproof Rating | IP54 |

10. WARRANTY & SUPPORT

10.1. Warranty Information

The OSCAL PowerMax 1800SE comes with a **5-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures product quality. Please retain your proof of purchase for warranty claims.

10.2. Customer Support

For any questions, technical assistance, or warranty claims, please refer to the contact information provided in your warranty card or visit the official ECOGREAT website for support resources.