

EcoVolt PowerMax 6000

EcoVolt PowerMax 6000 Portable Power Station User Manual

Model: PowerMax 6000

1. SAFETY INFORMATION

Please read all safety instructions carefully before operating the EcoVolt PowerMax 6000. 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 fire, water, and extreme temperatures.
- Ensure proper ventilation during use to prevent overheating.
- Do not block the ventilation openings.
- Use only approved accessories and charging cables.
- Keep out of reach of children and pets.
- If the unit emits smoke, strange odors, or unusual noises, discontinue use immediately and contact support.

2. PRODUCT OVERVIEW

The EcoVolt PowerMax 6000 is a high-capacity portable power station designed to provide reliable power for various applications, including home backup, camping, RV use, and emergency situations. It features a 7200Wh LiFePO4 battery, 6000W AC output (9000W peak), and supports 120V/240V dual voltage output.

Key Features:

- **7200Wh Capacity & 6000W Output:** Provides substantial power for multiple devices.
- **120V/240V Dual Voltage:** Compatible with a wide range of appliances.
- **2200W Fast Charging:** Recharges quickly via AC or solar input.
- **5-8 ms Fast Switchover (EPS):** Ensures uninterrupted power during outages.
- **LiFePO4 Battery:** Offers long-lasting performance with over 3500 charge cycles.

- **Smart APP Control:** Monitor and manage the power station remotely.

What's in the Box:

- PowerMax 6000 Power Station with extra battery
- AC charging cable
- Car charging cable
- Solar charging cable
- User Manual



Image: The PowerMax 6000 unit with its ergonomic pull handle and wheels, showing dimensions (13.8in L x 17.5in W x 23.2in H) and a visual representation of included accessories like AC, car, and solar charging cables, and the user manual. It also highlights available outlets: 4 AC outputs, 1 Anderson port, 1 car out, 4 USB ports, and 4 DC outputs.

Product Video:

Video: An official overview of the OSCAL Solar Generator 120V/240V 3600Wh/6000W PowerMax 6000, demonstrating its features and various use cases in different environments.

3. SETUP

Initial Charging:

Before first use, fully charge your PowerMax 6000. The unit supports 2200W AC input and 2400W solar input for fast charging.

- **AC Charging:** Connect the provided AC charging cable to the unit's AC input port and then to a standard wall outlet. The unit can charge from 0% to 100% in approximately 1.96 hours.
- **Solar Charging:** Connect compatible solar panels (up to 2400W input) using the provided solar charging cable to the unit's solar input port. Optimal charging speed is achieved with direct sunlight.
- **Combined Charging:** For the fastest charge, combine AC and solar panel charging. A full charge can be achieved in approximately 1.44 hours with 2200W AC input and 2400W solar input.

OSCAL 120V/240V PowerMax 6000W Solar Generator



Image: The PowerMax 6000 providing 120V/240V dual voltage output to a house, illustrating its capability to power various household appliances.

4. OPERATING INSTRUCTIONS

Turning 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, showing battery status and output information.

Using AC/DC Outputs:

- **AC Outlets:** Press the AC power button to activate the AC outlets. Connect your 120V or 240V appliances. The PowerMax 6000 provides 6000W continuous output (9000W peak).
- **DC Outlets:** Press the DC power button to activate the DC (USB, Car, DC5521) outlets. Connect your USB-powered devices or 12V DC appliances.

PowerMax 6000+15 Battery Packs

Up to **57600Wh** With Expandable
Batteries



Image: The PowerMax 6000 in a workshop setting, powering tools such as a cutting machine, electric saw, hand drill, and weeder, demonstrating its 6000W ultra-high power capability.

Emergency Power Supply (EPS) Function:

The PowerMax 6000 features an Uninterruptible Power Supply (UPS) function. When connected to an AC power source and powering devices, it will automatically switch to its internal battery power within 5-8 milliseconds during a power outage. This ensures continuous operation for critical equipment.

2200W AC high-speed charging

Charging up to **80%** in just **57** minutes



AC + solar Panel charging

Combination of AC and solar panel
full charge in **1.44** hours with amaximum input of 2400W



Image: The PowerMax 6000 highlighting its 5-8ms EPS switchover feature, showing use cases like powering a CPAP machine, supporting work from home, and emergency work.

Smart APP Control:

Download the 'Smart Life' application on your smartphone to connect and control your PowerMax 6000. The app allows you to:

- Monitor power usage (input/output).
- View remaining battery power and estimated discharge time.
- Control charging speed.
- Turn AC/DC outputs on/off remotely.



Image: A smartphone screen showing the 'Smart Life' app interface, demonstrating remote monitoring and control capabilities for the PowerMax 6000, including input/output power, battery level, and estimated discharge time.

5. MAINTENANCE

Battery Care:

The PowerMax 6000 uses a durable LiFePO4 battery, designed for long life and safety. To maximize battery lifespan:

- Avoid fully discharging the battery frequently.
- Store the unit in a cool, dry place, ideally with a charge level between 50% and 80%.
- Recharge the unit every 3-6 months if not in regular use to prevent deep discharge.

Cleaning:

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.

Storage:

When storing the unit for extended periods, ensure it is charged to approximately 50-80% and stored in a

temperature-controlled environment (0°C to 40°C / 32°F to 104°F). Avoid direct sunlight or extreme humidity.

6. TROUBLESHOOTING

- **Unit Not Turning On:** Ensure the battery is charged. If not, connect to an AC power source and attempt to charge.
- **No Output from AC/DC Ports:** Verify that the respective AC or DC power buttons are pressed and activated. Check if the total power draw exceeds the unit's maximum output (6000W).
- **Charging Issues:** Ensure charging cables are securely connected. For solar charging, confirm panels are in direct sunlight and correctly oriented.
- **Overload Protection:** If the unit shuts down due to overload, disconnect some devices and restart the unit. The PowerMax 6000 has a surge capacity of 9000W, but continuous loads above 6000W will trigger protection.
- **Initial Surge from Large Motors:** The unit's Battery Management System (BMS) may shut down if a large motor (e.g., over 3/4 HP air compressor) draws a very high initial surge current. This is a protective measure. If this occurs, a hard reset may be required. Consider using appliances with lower starting current requirements or soft-start features.

7. SPECIFICATIONS

Feature	Detail
Brand	EcoVolt
Model Name	PowerMax 6000
Capacity	7200Wh
AC Output	6000W (9000W Peak)
Voltage	120V/240V Dual Voltage
Battery Type	LiFePO4
Cycle Life	3500+ cycles
AC Input Charging	2200W
Solar Input Charging	2400W
EPS Switchover Time	5-8 ms
Total Power Outlets	14 (4 AC, 1 Anderson, 1 Car, 4 USB, 4 DC)
Dimensions (L x W x H)	13.8" x 17.48" x 23.2"
Material	ABS

8. WARRANTY AND SUPPORT

Warranty:

The EcoVolt PowerMax 6000 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.

Customer Support:

If you encounter any issues or have questions regarding your PowerMax 6000, please refer to the contact information provided in your product packaging or visit the official EcoVolt website for support. When contacting support, please have your model number and purchase date available.