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> OSCAL PowerMax 6000 Portable Power Station User Manual

EcoVolt PowerMax 3600

OSCAL PowerMax 6000 Portable Power Station User Manual

Model: PowerMax 3600 (Expandable to 7200Wh with BP3600)

1. INTRODUCTION

Thank you for choosing the OSCAL PowerMax 6000 Portable Power Station. This high-capacity solar generator is designed to provide reliable power for various applications, including home backup, outdoor camping, RV use, and emergency situations. With its expandable capacity and robust features, the PowerMax 6000 ensures you have power when and where you need it most.

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your PowerMax 6000. Please read it thoroughly before using the device.

What's Included:

- PowerMax 6000 with BP3600 Expansion Battery
- AC charging cable
- Solar charging cable
- Car charging cable
- User Manual
- Warranty Card



Figure 1.1: The OSCAL PowerMax 6000 portable power station shown with the BP3600 expansion battery stacked on top, connected by a power cable.

2. SAFETY INSTRUCTIONS

Always follow these basic safety precautions to reduce the risk of fire, electric shock, or injury:

- Do not disassemble, repair, or modify the unit.
- Do not place the unit near fire or expose it to heat.
- Do not store or use in direct sunlight or high temperatures.
- Do not use or store in a bathroom or in areas exposed to water or rain.
- Use only original or certified cables and accessories.

- Keep out of reach of children and pets.
- Ensure proper ventilation during use to prevent overheating.
- Do not insert foreign objects into the ports.
- In case of leakage or abnormal odor, discontinue use immediately and contact customer support.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the PowerMax 6000 and all accessories from the packaging. Inspect the unit for any signs of damage. If any components are missing or damaged, contact customer support immediately.

3.2 Initial Charging

Before first use, fully charge the PowerMax 6000. Connect the provided AC charging cable to the unit's AC input port and then to a wall outlet. The display will indicate the charging status. A full charge from 0% to 100% can be completed within approximately 1.96 hours using the 2200W AC input.

The PowerMax 6000 also supports solar charging (up to 2400W input), car charging, and other methods for flexible recharging.

Intelligente Steuerung per mobiler App



Monitoring and
control from
anywhere



Get help from the
support team



Low battery
notification



Personalize your
electricity usage



Figure 3.1: The PowerMax 6000 can be controlled and monitored via a mobile application, allowing for remote management of charging and output settings.

4. OPERATING THE POWER STATION

4.1 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 again until the display turns off.

4.2 Connecting Devices

The PowerMax 6000 offers multiple output ports to connect various devices:

- **AC Output:** 4 AC output ports, providing 6000W continuous power (7200W peak). Supports 120V/240V dual voltage.
- **USB-A Output:** 4 USB-A output ports for charging smaller devices.
- **USB-C Output:** 2 100W fast USB-C output ports.
- **Car Output:** 1 car output port.
- **DC Output:** 4 DC output ports.

Simply plug your device into the appropriate port and ensure the corresponding output section (AC, USB, DC) is activated on the unit's display or via the mobile app.



Figure 4.1: The PowerMax 6000 can provide 120V/240V dual voltage output, capable of powering an entire home during outages.

6000W ULTRA-HIGH POWER

Powers everything and supports over **99%** of electronic devices



Cutting Machine



Electric saw



Hand drill



weeder



Figure 4.2: With 6000W ultra-high power, the PowerMax 6000 can power over 99% of electronic devices, including heavy-duty tools.

4.3 Expandable Capacity

The PowerMax 6000's capacity can be expanded from 3600Wh to 7200Wh by connecting the BP3600 Expansion Battery. For even greater capacity, multiple units can be connected in parallel, reaching up to 57600Wh with 15 BP3600 battery packs.

Power Supply Supports Parallel Connection Function

capacity and output are doubled



Figure 4.3: The PowerMax 6000 supports parallel connection, allowing for doubled capacity and output for extended power needs.

4.4 EPS Uninterruptible Power Supply

Equipped with an EPS (Emergency Power Supply) function, the PowerMax 6000 automatically switches to battery power within 5-8 milliseconds during a power outage. This ensures uninterrupted operation for critical equipment like network devices or medical machines.

50% Faster 5-8ms EPS switchover



Figure 4.4: The 5-8ms EPS switchover provides seamless power transition, ideal for sensitive electronics and essential home or work equipment.

4.5 Lighthouse-like Signal Light

The PowerMax 6000 features a unique signal light function that can blink in Morse Code for numbers 0-9 and alphabets A-Z. This can be controlled via the Smart APP and is useful for communication in emergency or remote situations.

Your browser does not support the video tag.

Video 4.1: Official OSCAL Power Station overview, demonstrating features including the signal light and various power applications. This video highlights the product's versatility for home and outdoor use.

5. MAINTENANCE

5.1 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.

5.2 Storage

Store the PowerMax 6000 in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to charge the unit to approximately 50-80% every 3-6 months to maintain battery health.

5.3 Battery Care

The PowerMax 6000 uses durable LiFePO4 batteries, designed for over 3500 charge and discharge cycles, ensuring a long service life of up to 25 years. The advanced eight-layer safety BMS protects against overcharge, over-discharge, over-voltage, over-current, short-circuit, and temperature fluctuations.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Battery is depleted.	Charge the unit using the AC charging cable.
No output from AC ports.	AC output not activated or overloaded.	Press the AC power button to activate. Reduce connected load if overloaded.
Slow charging speed.	Input power is low or charging mode is set to slow.	Ensure high-wattage input source. Check charging settings in the mobile app.
Display shows error code.	Internal fault or specific issue.	Refer to the mobile app for detailed error descriptions or contact customer support.

For issues not listed above, please contact OSCAL customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	EcoVolt (OSCAL)
Model Name	PowerMax 3600 (Base Unit)
Capacity	3600Wh (Expandable to 7200Wh with BP3600)
AC Output	6000W (7200W Peak), 120V/240V Dual Voltage, 4 ports
USB-A Output	4 ports
USB-C Output	2 x 100W ports
DC Output	4 ports
Car Output	1 port
AC Input Charging	2200W (0-100% in 1.96h)
Solar Input Charging	2400W Max
Battery Type	LiFePO4
Cycle Life	3500+ cycles (to 80% capacity)

Feature	Detail
EPS Switchover Time	5-8 ms
Dimensions (L x W x H)	23.2" x 13.8" x 17.3"
Material	ABS, Plastic

8. WARRANTY AND SUPPORT

The OSCAL PowerMax 6000 Portable Power Station comes with a 2-year warranty, ensuring your satisfaction and peace of mind. For technical support, warranty claims, or any inquiries, please contact EcoVolt customer service through the official channels provided at the time of purchase or visit the EcoVolt store on Amazon.

EcoVolt Store Link: [Visit the EcoVolt Store](#)