ECOGREAT PowerMax 3600 SE

ECOGREAT OSCAL PowerMax 3600 SE Portable Power Station User Manual

Model: PowerMax 3600 SE

Introduction Safety Instructions Package Contents Product Overview Setup Operating Instructions Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

Thank you for choosing the ECOGREAT OSCAL PowerMax 3600 SE Portable Power Station. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and retain it for future reference.
The PowerMax 3600 SE is a high-capacity portable power station designed to provide reliable power for various applications, including home backup, outdoor activities, and emergencies. Featuring a 3600Wh LiFePO4 battery and 3600W (7200W surge) AC output, it supports a wide range of electronic devices and appliances.

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.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use to prevent overheating.
- Use only original or certified accessories.
- Keep out of reach of children.
- In case of fire, use a dry powder fire extinguisher.
- The unit features a UL94V-0 rated flame-retardant casing for fire prevention.
- A loud low battery beeping alarm provides timely alerts during emergencies.

3. Package Contents

Verify that all items are present in your package:

- PowerMax 3600 SE Portable Power Station
- 400W Solar Panel (if included in your bundle)
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual

4. Product Overview

4.1. Control Panel and Display

The PowerMax 3600 SE features a user-friendly control panel with large buttons and an intuitive LED display for easy operation and monitoring of battery information.

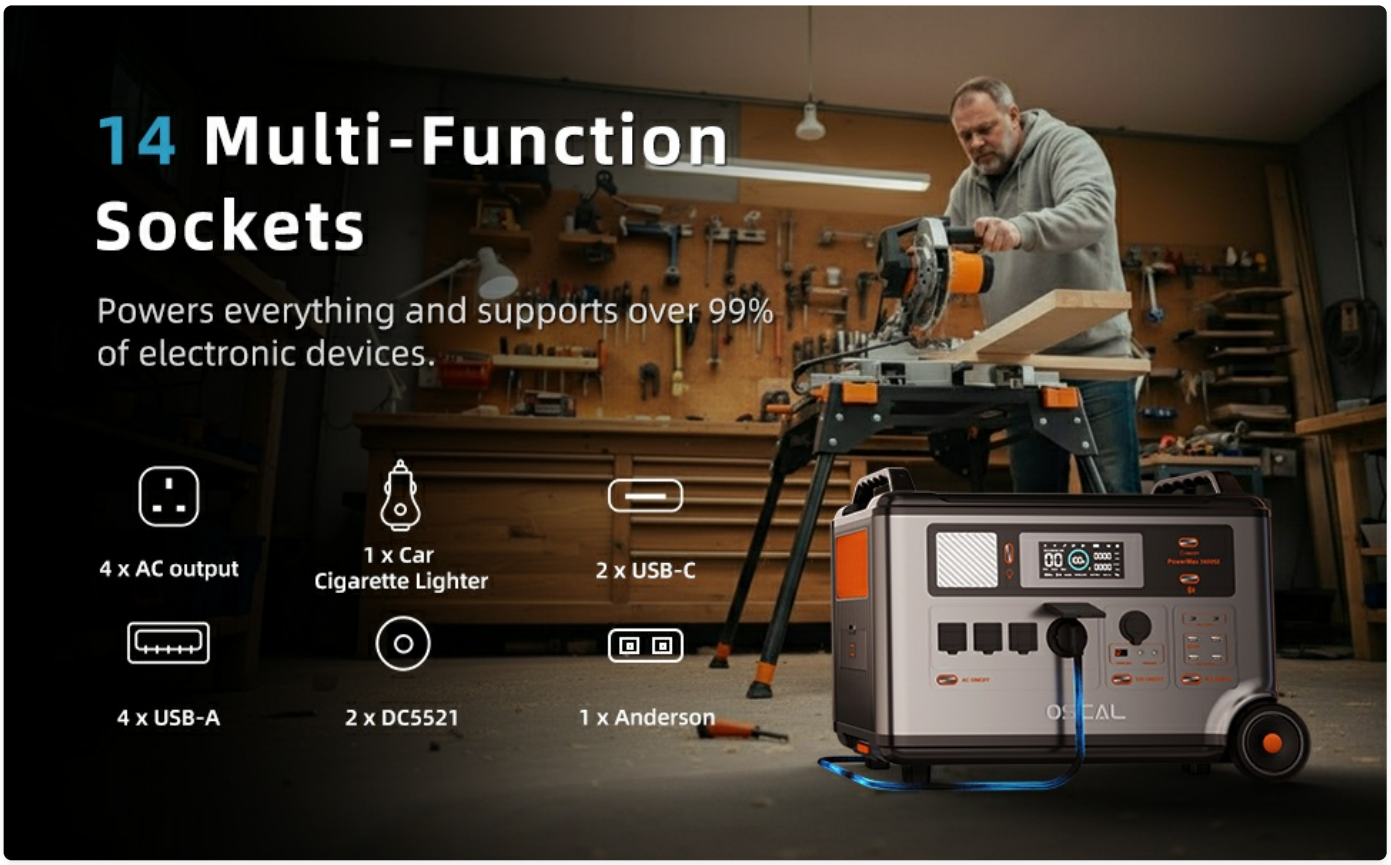


Image: The PowerMax 3600 SE control panel showing various output ports and the digital display. It highlights 14 multi-function sockets for powering diverse devices.

4.2. Output Ports

The unit is equipped with 14 versatile output ports to support a wide range of electronics and appliances:

- 4 x AC Output (Pure Sine Wave, 3600W total, 7200W surge)
- 1 x TT-30 (RV Ready)
- 2 x USB-C (100W Max each)
- 4 x USB-A (18W Max each)
- 1 x Car Charger (12V-10A, 120W Max)
- 2 x DC5521 Output (Shared 120W)

- 1 x Anderson Output (Shared 120W)



Image: Close-up view of the PowerMax 3600 SE's various output ports, including AC, USB-C, USB-A, car charger, DC5521, and Anderson outputs, illustrating its versatility.

4.3. Portability

Designed for convenience, the PowerMax 3600 SE features smooth wheels and telescopic handles, allowing for easy transport like a trolley case.



Image: A person pulling the PowerMax 3600 SE portable power station using its integrated wheels and telescopic handle on a paved path, demonstrating its portability.

5. Setup

5.1. Initial Charge

Before first use, fully charge the PowerMax 3600 SE. Connect the AC charging cable to a wall outlet. The display will show the charging status. A full charge from 0-100% can be achieved in approximately 1.44 hours with combined AC and solar input (1800W AC + 1600W solar).

5.2. Solar Panel Connection (Optional)

If using the optional 400W solar panel, connect it to the solar input port on the power station using the provided solar charging cable. Position the solar panel in direct sunlight for optimal charging efficiency.



Image: The PowerMax 3600 SE power station positioned outdoors with multiple solar panels connected, illustrating its fast charging capabilities via solar and AC input.

6. Operating Instructions

6.1. Turning On/Off

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

6.2. Charging Devices

Connect your devices to the appropriate output ports (AC, USB-A, USB-C, Car Charger, DC5521, Anderson). Ensure the corresponding output section is turned on. The PowerMax 3600 SE can power up to 99% of essential devices, including microwaves, refrigerators, power tools, and more.



Image: An illustration showing the PowerMax 3600 SE powering various household appliances simultaneously, such as a space heater, microwave, double-door fridge, heated blanket, sump pump, and LED bulb.



Image: The PowerMax 3600 SE connected to and powering a variety of essential devices like a coffee maker, electric lawn mower, toaster, and washing machine, indicating their respective run times.

6.3. EPS (Emergency Power Supply) Function

The PowerMax 3600 SE is equipped with an EPS uninterruptible power supply. In the event of a power outage, it automatically switches to battery power within 5-8 milliseconds, ensuring continuous operation for connected equipment. This is ideal for home emergencies, network equipment, and critical outdoor tasks.



Image: A woman opening a refrigerator in a dimly lit kitchen, with the PowerMax 3600 SE providing power, illustrating its ultra-fast EPS auto-switch feature during a power interruption.

6.4. Smart App Control

Download the OSCAL application on your smartphone to remotely monitor and control the power station via Bluetooth or Wi-Fi. The app allows you to manage power usage, check real-time stats, and execute commands with ease.



Image: A person holding a smartphone displaying the OSCAL app interface, showing battery status and control options for the PowerMax 3600 SE, emphasizing smart app control.



Image: A man using a smartphone app to control the PowerMax 3600 SE power station while camping with a rooftop tent, demonstrating remote control capabilities.

6.5. Usage Scenarios

The PowerMax 3600 SE is versatile for various environments:

- **Outdoor Camping:** Power mini-fridges, electric grills, and lighting.
- **Working Electricity:** Operate power tools like electric routers and lawnmowers.
- **Home Backup Power:** Keep essential appliances running during outages.



Image: A collage showing the PowerMax 3600 SE being used in three different scenarios: outdoor camping with an RV, powering a chainsaw for outdoor work, and providing home backup power in a living room setting.

6.6. Official Product Videos

Your browser does not support the video tag.

Video: An official product video showcasing the OSCAL 3600Wh 3600W Power Station PowerMax 3600 SE, highlighting its features and applications.

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Video: A detailed official product video demonstrating the OSCAL Portable Power Station 3600Wh PowerMax 3600 SE, covering its design, functionality, and benefits.

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

Store the PowerMax 3600 SE in a cool, dry place, away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to approximately 50-80% every 3-6 months to prolong battery life.

7.3. Battery Care

The unit uses durable LiFePO4 batteries with an advanced eight-layer safety BMS (Battery Management System). This system provides protection against overcharge, over-discharge, over-voltage, over-current, short-circuit, and temperature fluctuations, ensuring a service life of up to 25 years with 3500+ charge cycles.

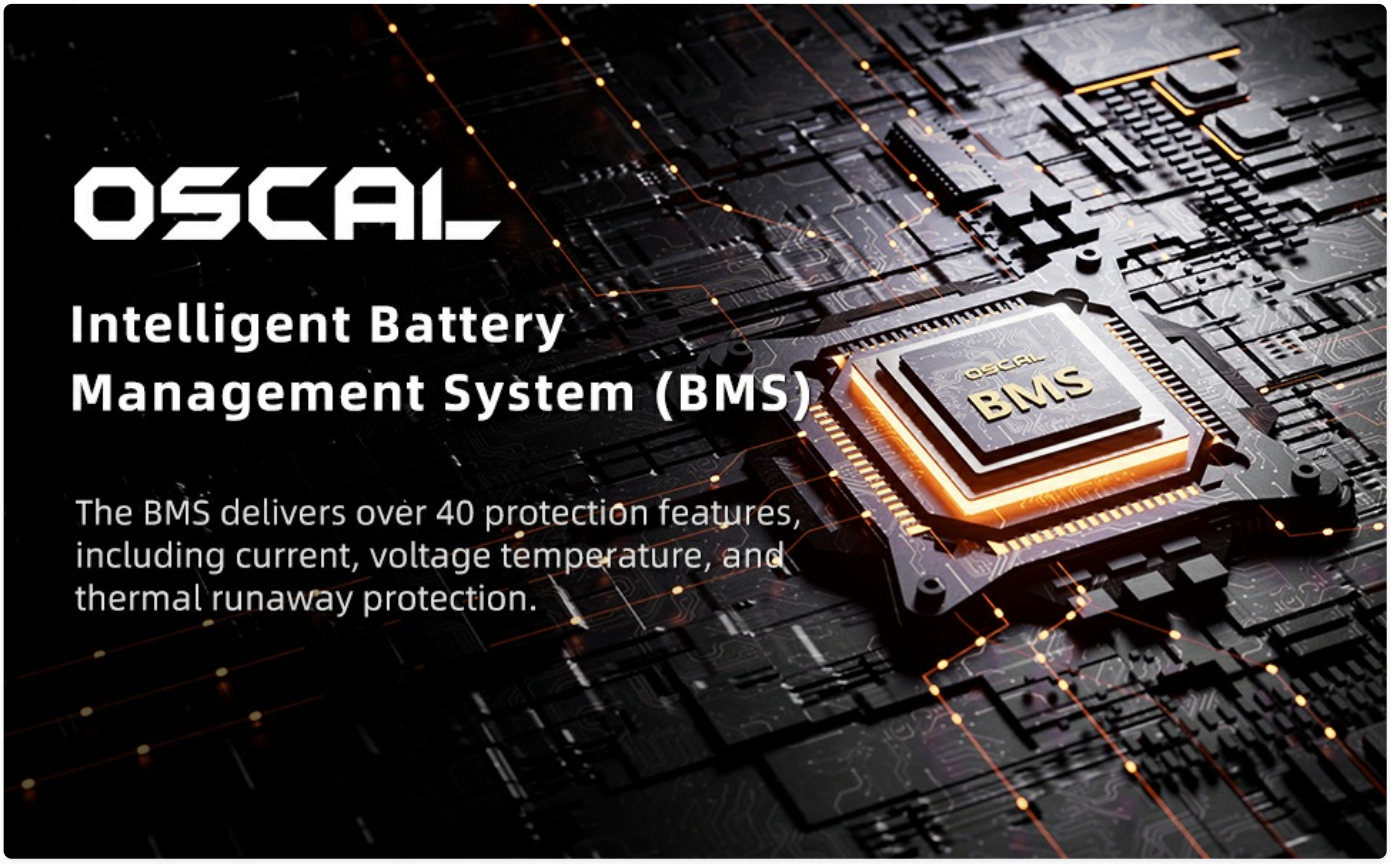


Image: A detailed diagram illustrating the OSCAL Intelligent Battery Management System (BMS) chip, emphasizing its role in delivering over 40 protection features for current, voltage, temperature, and thermal runaway.

8. Troubleshooting

Problem	Possible Cause	Solution
Unit not turning on	Battery is completely drained.	Connect to AC power and charge for at least 30 minutes.
Device not charging	Output port not activated or device requires more power than available.	Ensure the specific output port is turned on. Check device power requirements against power station output.
Slow charging via solar	Insufficient sunlight or incorrect panel angle.	Reposition solar panels for direct sunlight exposure. Clean panels if dirty.

Problem	Possible Cause	Solution
Overload warning	Connected devices exceed the unit's output capacity.	Disconnect some devices to reduce the load. The unit will automatically reset after a few seconds.

9. Specifications

Feature	Detail
Brand	ECOGREAT
Model Name	PowerMax 3600 SE
Battery Capacity	3600Wh
AC Output	3600W (7200W Surge)
Battery Type	LiFePO4
Charge Cycles	3500+ to 80% capacity
Fast Charging	0-100% in 1.44h (1800W AC + 1600W Solar)
EPS Switchover Time	5-8 ms
Total Power Outlets	14
Operating Temperature	-20°C to 55°C
Casing Material	High-strength ABS (UL94V-0 rated flame-retardant)
Dimensions (L x W x H)	11.5"L x 13"W x 16.5"H (23.2 x 13.8 x 17.5 inches)
Net Weight	Approximately 97 lb / 44.45 kg
Special Features	Smart App Control, Overload Protection, Super Quiet, USB Port, Lighthouse-like Signal Light (Morse Code)

10. Warranty & Support

The PowerMax 3600 SE comes with a 5-year warranty, ensuring your satisfaction and peace of mind. For technical support, warranty claims, or further assistance, please contact ECOGREAT customer service through their official channels or refer to the contact information provided in your product packaging.
For more information, visit the ECOGREAT Store on Amazon.

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Example: How do I reset this device or fix this error?

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