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› OSCAL PowerMax 3600 Portable Power Station and PM200 Solar Panel User Manual

OSCAL PowerMax 3600

OSCAL PowerMax 3600 Portable Power Station

USER MANUAL & PM200 SOLAR PANEL GUIDE

1. Introduction

Thank you for choosing the OSCAL PowerMax 3600 Portable Power Station and PM200 Solar Panel. This manual provides essential information for the safe and efficient operation, setup, and maintenance of your device. Please read this manual thoroughly before use and retain it for future reference.

Safety Precautions

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Ensure proper ventilation during use and charging.
- Avoid dropping or subjecting the unit to strong impacts.
- Keep out of reach of children and pets.



Figure 1: OSCAL PowerMax 3600 Portable Power Station. This image shows the main unit with its display and various ports.

2. Product Overview

The OSCAL PowerMax 3600 is a high-capacity portable power station designed for various applications, from outdoor adventures to emergency home backup. It features a robust LiFePO4 battery and multiple output ports.

Key Features:

- **High Capacity:** 3600 Wh base capacity, expandable up to 57,600 Wh with additional batteries.
- **Powerful Output:** 6000 W peak output, capable of powering most household appliances.
- **LiFePO4 Battery:** Safe, stable, and durable with over 3500 charge cycles (to 80% capacity).
- **Fast Charging:** Fully charged in 1.2 hours with dual AC and solar input.
- **Uninterruptible Power Supply (UPS):** Automatic switchover in 5-8 ms during power outages.
- **Smart Control:** Monitor and control via the OSCAL smartphone application (Wi-Fi/Bluetooth).
- **Durable Design:** Splash-proof, dust-proof, 0.8M vertical drop protection, UV-resistant, and UL94V-0 fire rating.

Sprutskydd



Dammsäker



UV-beständig & Brandklass UL94V-0



Figure 2: Front view of the PowerMax 3600, showing AC outlets, USB ports, and the display panel.

Ladda upp till 100% på 1,2 timmar

Erhåller upp till 7 olika laddningsalternativ



AC + Solenergi Dubbel
Laddning på
1,2 timmar



AC-laddning
på 1,96 timmar



Elbilsladdning
på station på
1,96 timmar



Generator med
gasladdning på
1,96 timmar



Vattenturbinladdning



Vindkraftsladdning



Bila laddning



Figure 3: The PowerMax 3600 connected to the PM200 solar panel for charging in an outdoor setting.

3. Setup

3.1 Unpacking and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'What you will get' section are present and undamaged. If any items are missing or damaged, contact customer support immediately.

3.2 Initial Charging

Before first use, fully charge the PowerMax 3600. Connect the AC charging cable to the unit's AC input port and then to a standard wall outlet. The display will indicate the charging status. A full charge typically takes 1.2 hours with combined AC and solar input, or 1.96 hours with AC only.

3.3 Connecting the PM200 Solar Panel

To charge using solar power, unfold the PM200 solar panel and position it in direct sunlight. Connect the MC4 to Anderson cable (or other compatible cable) from the solar panel to the PowerMax 3600's solar input port. The unit

will automatically detect the solar input and begin charging.



Figure 4: Diagram illustrating the multi-functional charging cable and broad compatibility of the solar panel with various connectors (Anderson, 7.9*0.9mm, XT60, 5.5*2.1mm, 6.5*3mm).

4. Operating Instructions

4.1 Powering On/Off

Press and hold the main power button for a few seconds to turn the unit on or off. The display will illuminate upon activation.

4.2 Using AC Outputs

Press the AC power button to activate the AC outlets. Plug your devices into the available AC ports. The PowerMax 3600 provides a pure sine wave output, suitable for sensitive electronics. The unit has 4 AC outlets.

4.3 Using DC Outputs (USB-A, USB-C, 12V)

Press the DC power button to activate the DC outputs. Connect your USB-powered devices to the 4 USB-A ports or 2 USB-C ports (100W each). The 12V car port and other DC outputs are also available for compatible devices.

Kan ladda upp till 99% av grundutrustningen



Kaffebryggare (800W)
3,8 timmar



Gräsklippare (1000W)
3,2 timmar



Brödrost (800W)
3,8 timmar



Tvättmaskin (500W)
6 timmar



Figure 5: The PowerMax 3600 simultaneously powering various household appliances like a coffee maker, toaster, and refrigerator, demonstrating its high output capability.

4.4 Understanding the Display

The integrated display shows real-time information including battery level, input/output wattage, remaining run time, and active ports. Refer to the on-screen icons for specific indicators.

4.5 Uninterruptible Power Supply (UPS) Function

When connected to an AC wall outlet and powering devices, the PowerMax 3600 acts as a UPS. In the event of a power outage, it automatically switches to battery power within 5 to 8 milliseconds, ensuring continuous operation for connected devices like computers or medical equipment (e.g., CPAP machines).

Snabb omkoppling på 5-8 ms



Figure 6: The PowerMax 3600 demonstrating its fast UPS switching capability, suitable for powering critical devices like CPAP machines, supporting home office work, and emergency operations.

4.6 Smart Remote Control (OSCAL App)

Download the OSCAL application from your smartphone's app store. Pair the PowerMax 3600 via Wi-Fi or Bluetooth to monitor battery status, control outputs, and perform firmware updates remotely.

Smart APP-styrning Firmware-uppdateringar

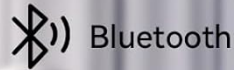


Figure 7: The OSCAL PowerMax 3600 being controlled and monitored via the dedicated smartphone application, showing battery percentage, input/output wattage, and control toggles for AC, DC, USB, and LED lights.

5. Charging Methods

The PowerMax 3600 supports multiple charging methods to ensure you always have power.

- **AC Wall Outlet:** Connect the included AC charging cable to a standard wall outlet.
- **Solar Charging:** Use the PM200 solar panel or other compatible solar panels via the MC4 input.
- **Car Charging:** Charge from your vehicle's 12V cigarette lighter port using the included car charging cable.
- **EV Charging Station:** The unit can be charged at an electric vehicle charging station (up to 2200W input).
- **Generator:** Connect to a gasoline generator for charging (up to 2200W input).
- **Lead-Acid Battery:** Supports charging from lead-acid batteries for emergency situations.



Figure 8: The PowerMax 3600 charging from a standard AC wall outlet, demonstrating its fast charging capability.



Recharge à la station EV

La recharge rapide de 2200W est possible dans les stations EV à travers le pays. Charge complète en 1,57 heures

Figure 9: The PowerMax 3600 connected to an electric vehicle charging station, showcasing an alternative fast charging method.



Charge via la prise allume-cigare

L'alimentation électrique est possible même en voyage, ce qui le rend pratique à utiliser

Figure 10: The PowerMax 3600 charging inside a car via the cigarette lighter socket, highlighting its portability and convenience for travel.

Charge de générateur intelligent

Générez de l'électricité avec de l'essence et alimentez PowerMax3600. Vous pouvez charger complètement des appareils d'une puissance maximale de 2200W en 1,57 heures.



Figure 11: The PowerMax 3600 being charged by a traditional gasoline generator, offering a versatile charging solution.

Charge de batterie au plomb-acide

PowerMax 3600 prend en charge différentes méthodes de charge, y compris la charge avec des batteries au plomb-acide. Vous pouvez l'utiliser en toute tranquillité en cas d'urgence sans vous soucier de l'épuisement de l'énergie



Figure 12: The PowerMax 3600 connected to lead-acid batteries for charging, providing an emergency power replenishment option.

6. Maintenance

6.1 Battery Care

The PowerMax 3600 uses LiFePO4 batteries, known for their longevity. To maximize battery lifespan:

- Avoid fully discharging the battery frequently.
- Store the unit with a charge level between 50% and 80% if not used for extended periods.
- Recharge the unit every 3-6 months during storage to prevent deep discharge.

CARGA LIMPIA Y ECOLÓGICA



Figure 13: An internal diagram of the PowerMax 3600, highlighting the LiFePO₄ battery cells and their robust structure, designed for a long lifespan of approximately 10 years or 3500 cycles to 80% capacity.

6.2 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 from dust and debris.

6.3 Storage

Store the PowerMax 3600 in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the unit is turned off during storage.

7. Troubleshooting

If you encounter issues with your PowerMax 3600, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not pressed long enough.	Charge the unit using AC power; Press and hold the power button for 3-5 seconds.

Problem	Possible Cause	Solution
No output from AC/DC ports	AC/DC output not activated; Device draws too much power; Overload protection triggered.	Press the respective AC/DC button; Check device wattage; Restart the unit and reduce load.
Solar charging not working	Insufficient sunlight; Incorrect panel connection; Damaged solar panel/cable.	Ensure direct sunlight; Verify cable connections; Test with another solar panel/cable if possible.
App connection issues	Bluetooth/Wi-Fi off; Unit too far from phone; App not updated.	Ensure Bluetooth/Wi-Fi is on; Move phone closer to unit; Update the OSCAL app.

If the problem persists, please contact OSCAL customer support.

8. Specifications

Feature	Detail
Brand	OSCAL
Model Number	BP3600-PM3600 (PowerMax 3600)
Battery Type	LiFePO4
Capacity	3600 Wh (expandable up to 57,600 Wh)
AC Output Power	3600 W (Rated), 6000 W (Peak)
Total AC Outlets	4
USB-A Outputs	4
USB-C Outputs	2 (100 W each)
Input Voltage	12 Volts (DC input for car/solar)
Frequency	60 Hz
Charging Time (AC + Solar)	1.2 hours (to 100%)
Charging Time (AC only)	1.96 hours (to 100%)
UPS Switching Time	5-8 ms
Lifespan	3500+ cycles (to 80% capacity)

Feature	Detail
Dimensions (L x W x H)	48 cm x 44 cm x 35 cm
Weight	44.45 Kilograms
Material	ABS
Special Features	Extra-long battery life, Energy efficient, BMS protection (over-voltage, under-voltage, over-current, over-charge, low/high temperature, short-circuit)

9. Warranty and Support

9.1 Warranty Information

The OSCAL PowerMax 3600 comes with a **5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Included Components

The package includes:

- PowerMax 3600 Portable Charging Station
- PM200 Portable Solar Panel
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable (MC4 to Anderson, MC4 to 7909, 6530, XT60, 5521)
- User Manual
- Warranty Card

9.3 Customer Support

For technical assistance, warranty claims, or any questions regarding your OSCAL PowerMax 3600, please refer to the contact information provided on your warranty card or visit the official OSCAL website. 24-hour after-sales support is available.