OUKITEL P1500 PLUS

OUKITEL P1500 PLUS Solar Generator User Manual

Model: P1500 PLUS

1. INTRODUCTION

The OUKITEL P1500 PLUS is a portable solar generator designed to provide reliable power for various applications, including outdoor activities, emergency backup, and home use. Featuring a 1536Wh LiFePO4 battery and an 1800W AC output, it can power multiple devices simultaneously. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your P1500 PLUS.

2. SAFETY INFORMATION

- Do not expose the unit to rain or moisture. Keep it away from water sources.

- Operate the unit in a well-ventilated area. Do not block ventilation openings.

- Avoid extreme temperatures. Store and operate the unit between 14°F to 104°F (-10°C to 40°C).

- Do not disassemble, repair, or modify the unit. Contact authorized service personnel for repairs.

- Ensure all cables are properly connected and free from damage before use.

- Keep out of reach of children and pets.

- In case of fire, use a dry powder fire extinguisher. Do not use water.

3. WHAT'S IN THE BOX

Upon unpacking, please verify that all the following items are included:

- 1 x OUKITEL P1500 PLUS Power Station

- 1 x AC Charging Cable

- 1 x MC4 to XT60 Cable (for solar charging)

- 1 x Bluetooth Pairing Pin

- 1 x User Manual

Image: Package contents of the OUKITEL P1500 PLUS.

4. PRODUCT OVERVIEW

4.1 Front Panel and Ports

The OUKITEL P1500 PLUS features a comprehensive front panel with various output ports and a digital display for monitoring status.

Image: Front panel with various ports including AC, USB-A, USB-C, DC5521, and cigarette lighter output.

- **AC Output:** 4 x 1800W AC outlets (Pure Sine Wave)
- **USB-C Output:** 2 x USB-C ports (100W PD, 20W QC3.0)
- **USB-A Output:** 2 x USB-A ports (5V/2.4A)
- **DC Output:** 2 x DC5521 ports (12V/3A)
- **Car Port:** 1 x Cigarette Lighter port (12V/10A)
- **LED Light:** Integrated LED light for illumination.

4.2 Digital Display Interface

The digital display provides real-time information about the power station's status, including charge level, input/output wattage, and various indicators.

1. Discharge Remaining Time / Charging Time
2. High Temperature Protection Indicator
3. Low Temperature Protection Indicator
4. Fan Status Indicator
5. Power Status (Battery Level)
6. UPS Mode Indicator
7. PV Charging Mode Indicator
8. Total Input Power (Watts)
9. Total Output Power (Watts)
10. Cigarette Lighter (12V) Output Indicator
11. DC (12V) Output Indicator
12. Silent Mode Indicator
13. Fast Charging Mode Indicator
14. Slow Charging Mode Indicator
15. Overload Protection Indicator
16. USB Output Indicator
17. PD Output Indicator
18. AC Output Indicator
19. Frequency Switching Indicator
20. WiFi / Bluetooth Indicator

5. SETUP

Before first use, it is recommended to fully charge the OUKITEL P1500 PLUS. Place the unit on a flat, stable surface in a well-ventilated area, away from direct sunlight and heat sources.

5.1 Initial Charge

Connect the AC charging cable to the input port on the P1500 PLUS and then to a standard wall outlet. The display will show the charging status. Charge until the battery indicator shows 100%.

6. CHARGING THE P1500 PLUS

The OUKITEL P1500 PLUS supports multiple charging methods:

6.1 AC Wall Charging

Use the provided AC charging cable. Connect it to the AC input port on the power station and then to a standard wall outlet. The unit supports 1200W fast charging, allowing a full charge in approximately 1 hour and 40 minutes.

6.2 Solar Panel Charging

Connect compatible solar panels (up to 500W input) to the XT60 input port using the MC4 to XT60 cable. Place solar panels in direct sunlight for optimal charging. Charging time varies based on solar intensity and panel wattage. A 500W solar input can charge the unit in approximately 3 hours and 20 minutes.

6.3 Car Charging

Connect the car charger (not included, typically sold separately) to the car's 12V/24V cigarette lighter socket and the DC input port on the power station. Charging time will be longer compared to AC or solar charging.

Image: Charging options and estimated times for the OUKITEL P1500 PLUS.

7. OPERATING THE P1500 PLUS

7.1 Powering On/Off

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

7.2 Using AC Outputs

Press the AC power button to enable the AC outlets. Plug your devices into the AC ports. Ensure the total wattage of connected devices does not exceed 1800W. Press the AC power button again to turn off AC output when not in use.

7.3 Using DC/USB Outputs

Press the DC power button to enable the DC and USB outputs. Plug your devices into the appropriate USB-A, USB-C, DC5521, or car port. Press the DC power button again to turn off DC/USB output when not in use.

7.4 Smart APP Control

The OUKITEL P1500 PLUS can be controlled remotely via a smartphone application. Download the official OUKITEL app from your device's app store. Follow the in-app instructions to pair your power station via Bluetooth or Wi-Fi. The app allows you to monitor status, control outputs, and adjust settings.

What's in the box

1 X 1500Plus Power Station

1 X AC Charging Cable

1 X Bluetooth Pairing Pin

1 X User Manual

Image: Smartphone displaying the OUKITEL app interface for remote control.

7.5 Usage Scenarios

Image: Examples of the OUKITEL P1500 PLUS being used in different environments like camping, home, and car.

8. UPS Function (Uninterruptible Power Supply)

The OUKITEL P1500 PLUS features an Uninterruptible Power Supply (UPS) function with a switch-over time of less than 10 milliseconds. When connected to a wall outlet and powering devices, the unit can automatically switch to battery power in the event of a power outage, providing seamless backup for sensitive electronics like computers and servers.

Image: OUKITEL P1500 PLUS connected to a desktop setup, demonstrating its UPS capability.

9. MAINTENANCE

9.1 Battery Care

The P1500 PLUS uses LiFePO4 battery cells, known for their long lifespan and safety. These batteries can endure over 4000 charge cycles before reaching 80% capacity, equating to approximately 10 years of regular use. The integrated Battery Management System (BMS) protects against over-voltage, over-current, and over-temperature.
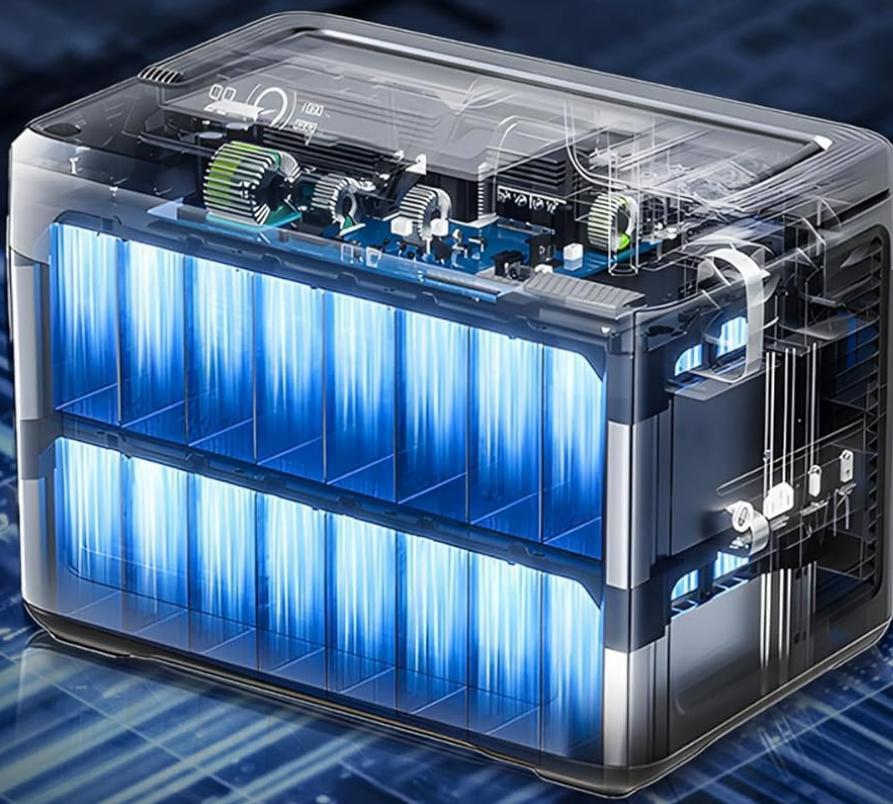
Image: Diagram showing the internal structure of the LiFePO4 battery cells.

9.2 Storage

If storing the unit for an extended period, charge it to approximately 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place, away from direct sunlight and extreme temperatures.

9.3 Cleaning

Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the unit in water.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on	Battery is depleted; Power button not pressed correctly	Charge the unit; Press and hold the power button for a few seconds
AC output not working	AC output not enabled; Overload protection triggered; Device power exceeds 1800W	Press the AC power button; Reduce connected load; Restart the unit
DC/USB output not working	DC output not enabled; Cable connection issue	Press the DC power button; Check cable connections
Unit is not charging	Charging cable not connected; Power source issue; Extreme temperature	Check cable connections; Verify power source; Move unit to suitable temperature range
Display shows error code	Internal fault or specific protection triggered	Refer to the display interface section for error code meaning or contact support.

If the problem persists after attempting the above solutions, please contact OUKITEL customer support.

11. SPECIFICATIONS

Feature	Specification
Model Name	P1500 PLUS
Battery Type	LiFePO4
Capacity	1536Wh
AC Output	1800W (Pure Sine Wave)
Max Output (Peak)	Not specified, but typically higher than rated output.
AC Input (Charging)	1200W Fast Charging
Solar Input	Max 500W
USB-C Output	2 x (100W PD, 20W QC3.0)
USB-A Output	2 x (5V/2.4A)
DC Output	2 x DC5521 (12V/3A)
Car Port Output	1 x (12V/10A)
UPS Switch-over Time	<10ms

Feature	Specification
Dimensions (L x W x H)	13.62" x 9.88" x 8.98" (34.6cm x 25.1cm x 22.8cm)
Weight	31 lbs (14.06 kg)
Operating Temperature	14°F to 104°F (-10°C to 40°C)

Image: Dimensions and weight of the OUKITEL P1500 PLUS.

12. WARRANTY AND SUPPORT

12.1 Warranty Information

The OUKITEL P1500 PLUS Solar Generator comes with a 2-year warranty from the date of purchase, covering manufacturing defects. This warranty ensures free repairment for eligible issues. Please retain your proof of purchase for warranty claims.

12.2 Return/Replacement Policy

Customers are eligible for a worry-free return or replacement within 30 days of purchase, subject to the retailer's policy.

12.3 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact OUKITEL customer support. You can find contact information on the official OUKITEL website or through your purchase platform. When contacting support, please have your model number and purchase details ready.