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OUKITEL P800

OUKITEL P800 Portable Power Station and 200W Solar Panel User Manual

Model: P800

Brand: OUKITEL

1. Introduction

This manual provides essential instructions for the safe and efficient operation of your OUKITEL P800 Portable Power Station and 200W Solar Panel. Please read this manual thoroughly before use and retain it for future reference.



Figure 1.1: OUKITEL P800 Portable Power Station and 200W Solar Panel.

2. Package Contents

Verify that all items are present in your package:

- OUKITEL P800 Portable Power Station
- 200W Solar Panel
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable

Note: Due to the weight of the product, the power station and solar panels may be delivered separately.

3. Setup

3.1 Initial Charging

Before first use, fully charge the OUKITEL P800. The power station can be charged via AC outlet, solar panel, or car socket. For fastest charging, use the AC charging cable. The unit charges from 0% to 100% in approximately 44 minutes with 500W AC input.



Figure 3.1: Charging the OUKITEL P800 via AC outlet.

3.2 Connecting the Solar Panel

To charge using the 200W solar panel, connect the solar charging cable to the PV IN port (12-50V 7A) on the power station. Position the solar panel in direct sunlight for optimal charging efficiency. The power station supports up to 200W solar input.

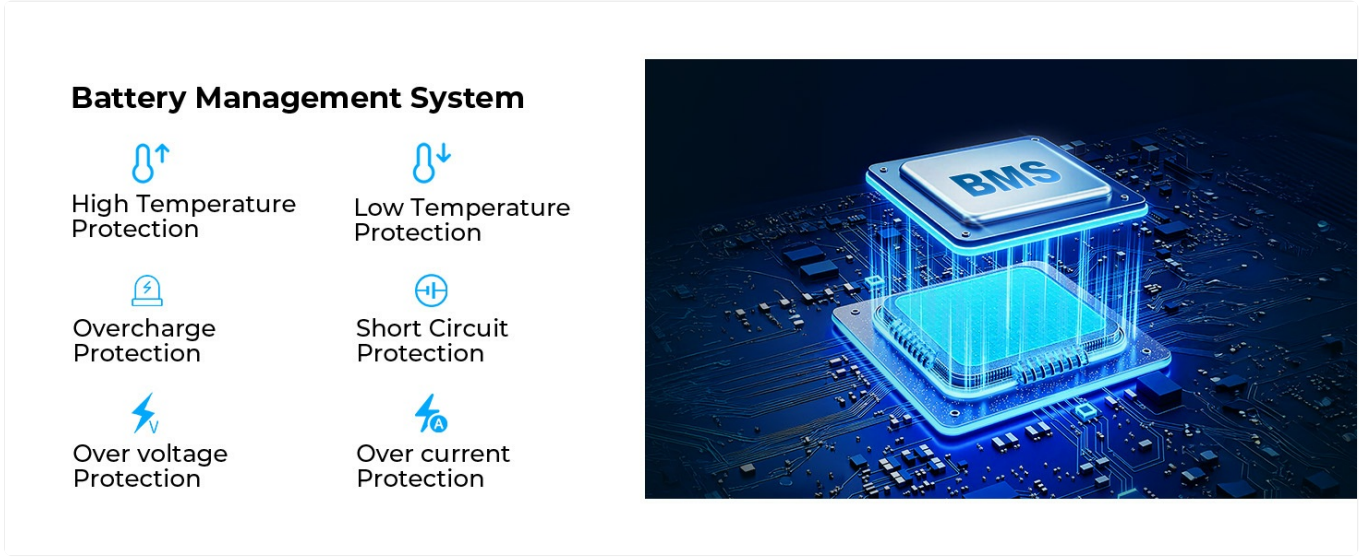


Figure 3.2: Solar panel charging setup.

You can also combine AC and solar charging simultaneously for even faster charging.



Figure 3.3: Combined AC and solar charging.

4. Operating Instructions

4.1 Powering On/Off

Press and hold the 'POWER' button to turn the unit on or off. The display will illuminate when the unit is active.

4.2 Output Ports

The OUKITEL P800 features 9 output ports to power various devices:

- 2x AC Outlets (800W continuous, 1600W peak)
- 1x Type-C (PD 100W Max)
- 2x USB-A (5V 2.4A)
- 1x QC-USB (QC 18W Max)
- 2x DC (12V 10A)
- 1x Car Charging Port (12V 10A)



Figure 4.1: Detailed view of all output ports.

Connect your devices to the appropriate ports. The power station can power devices such as laptops, phones, cameras, projectors, coffee makers, and small appliances.



Figure 4.2: Estimated device runtimes.



Figure 4.3: Estimated home appliance runtimes.

4.3 Display Information

The integrated display shows real-time information including battery percentage, input wattage, output wattage, and remaining runtime.

4.4 LED Light Functions

The power station includes a built-in LED light with three modes: steady glow, SOS, and strobe. Press the LED button to cycle through the modes.

4.5 Emergency Power Supply (EPS)

The OUKITEL P800 features an EPS unit with a response time of less than 0.01 seconds. In the event of a power outage, the unit automatically switches to battery power, providing uninterrupted electricity to connected devices.

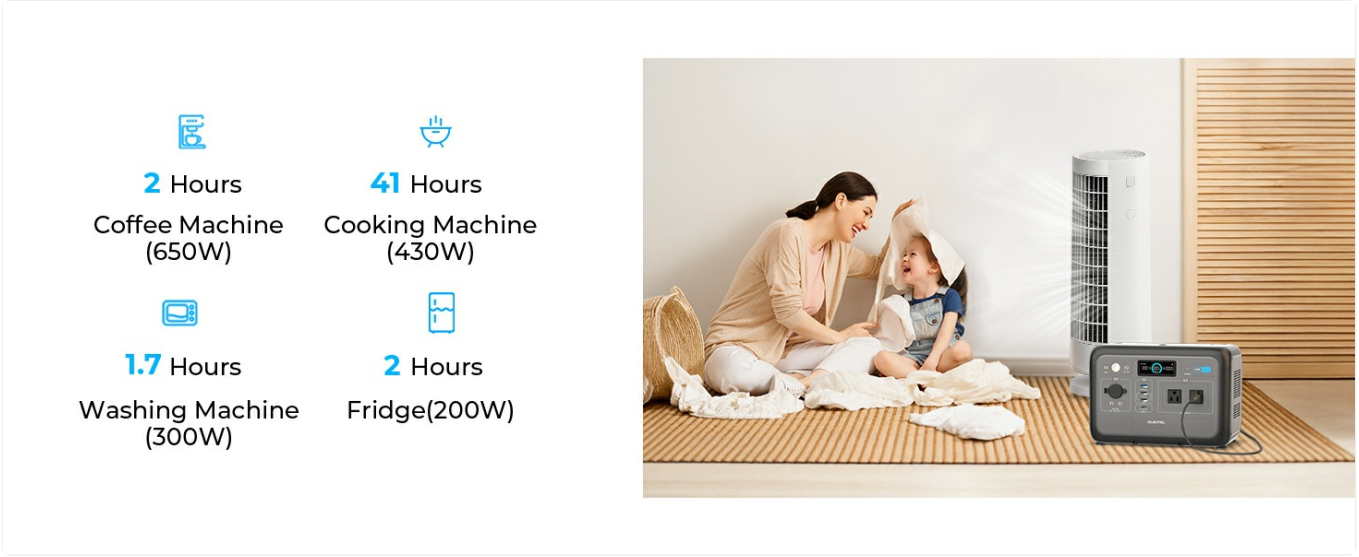


Figure 4.4: EPS system in action.

5. Maintenance

5.1 Storage Guidelines

Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure the battery is charged to approximately 50-80% and recharge every 3-6 months to maintain battery health.

5.2 Cleaning

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

5.3 Battery Care

The OUKITEL P800 uses a high-quality LiFePO4 battery, designed for over 4,000 charge cycles and a service life of up to 10 years. The integrated Battery Management System (BMS) and Microcontroller Unit (MCU) actively monitor and manage battery voltage and temperature to ensure safety and longevity.



Figure 5.1: Battery Management System (BMS) protections.

6. Troubleshooting

If you encounter issues with your OUKITEL P800, refer to the following common problems and solutions:

- **Unit Not Turning On:** Ensure the battery is charged. If the unit has been stored for a long period, it may require an initial charge.
- **No Output from Ports:** Verify that the power station is turned on and the specific output port (AC, USB, DC) is activated if it has a dedicated power button. Check the device you are trying to power to ensure it is functioning correctly and its power requirements do not exceed the P800's output capacity.
- **Solar Panel Not Charging:** Ensure the solar panel is connected correctly to the PV IN port. Position the panel in direct sunlight without any obstructions. Check the solar charging cable for damage.
- **Overload Protection:** If the unit shuts down unexpectedly, it may be due to an overload. Disconnect some devices and restart the power station.

For persistent issues, please contact customer support.

7. Specifications

Feature	Specification
Brand	OUKITEL
Model	P800
Wattage	800 watts (1600W peak)
Capacity	512Wh
Battery Type	LiFePO4
AC Input	500W Max
Solar Input	200W Max (12-50V 7A)
AC Output	2x 110V AC outlets
USB-C Output	1x PD 100W Max
USB-A Output	2x 5V 2.4A, 1x QC 18W Max
DC Output	2x 12V 10A
Car Port Output	1x 12V 10A
Dimensions (L x W x H)	11.54" x 7.01" x 8.07"
Weight	13.6 lbs (6.2 kg)
Special Features	Foldable Handle, Lightweight, Portable, LED Light, EPS Function

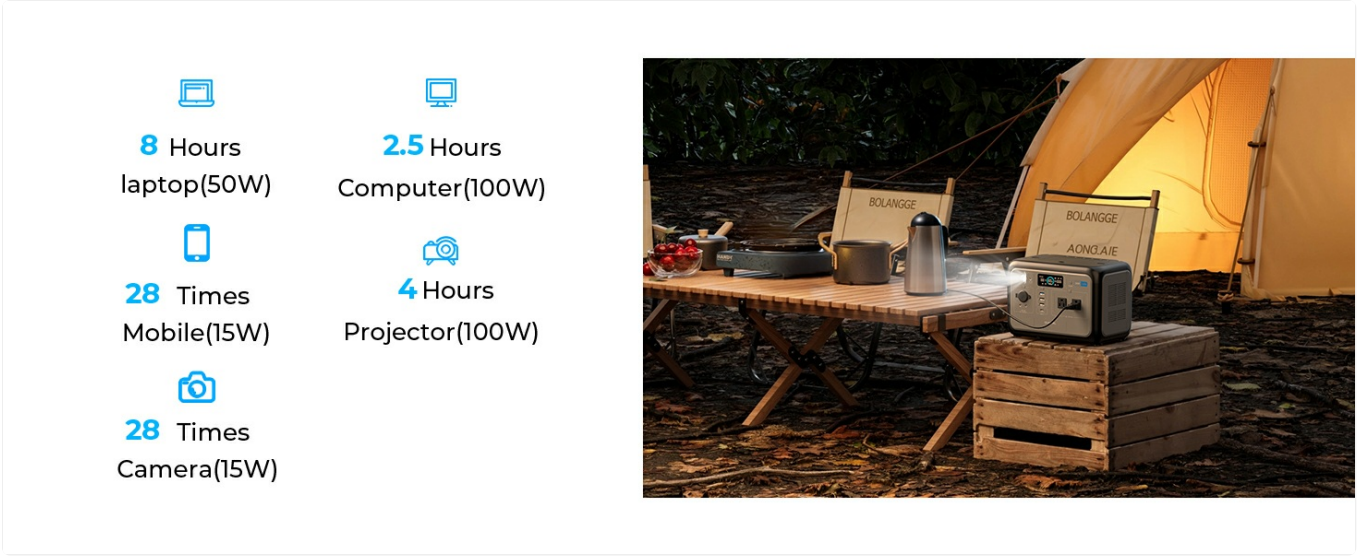


Figure 7.1: Compact design and weight of the OUKITEL P800.

8. Warranty and Support

The OUKITEL P800 Portable Power Station is backed by a 5-year warranty. For warranty claims, technical support, or any inquiries, please contact OUKITEL Official customer service. Refer to your purchase documentation for specific contact details.



Figure 8.1: Product certifications.

9. Product Videos

9.1 OUKITEL P800 Portable Power Station Overview

Your browser does not support the video tag.

Video 9.1: This video provides a brief overview of the OUKITEL P800 Portable Power Station, showcasing its various ports and ability to charge multiple devices simultaneously, including phones, speakers, and drones.

9.2 OUKITEL P800 Portable Power Station Features

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Video 9.2: This video highlights the OUKITEL P800's portability, fast charging capabilities, and diverse output options, demonstrating its use in outdoor settings for powering laptops, cameras, and other camping essentials.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

My OUKITEL P800E portable power station keeps switching itself off; how can I prevent this?

If your OUKITEL P800E (or P800) is switching itself off unexpectedly, it is likely due to one of the following reasons based on the manufacturer's troubleshooting guidelines: Overload Protection: The unit will shut down...

Read full answer

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