

## OUPES Mega 2

# OUPES Mega 2 2048Wh Portable Power Station User Manual

Comprehensive instructions for setup, operation, and maintenance of your OUPES Mega 2 Solar Generator with 240W Panel.

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your OUPES Mega 2 Portable Power Station. Please read this manual thoroughly before operating the device and retain it for future reference. The OUPES Mega 2 is designed to provide reliable power for various applications, including home backup, outdoor camping, RV/van use, and emergency situations.



Image: The OUPES Mega 2 Portable Power Station shown with its accompanying 240W foldable solar panel, illustrating the complete solar generator system.

## 2. PRODUCT OVERVIEW AND KEY FEATURES

The OUPES Mega 2 is a high-capacity portable power station featuring a durable LiFePO4 battery and versatile output options. It is engineered for longevity and performance in diverse environments.

- **High Capacity & Output:** 2048Wh battery capacity with 2500W continuous AC output and 5400W surge capability.
- **Long-lasting LiFePO4 Battery:** Offers over 3500 charge cycles to 80% capacity, providing a lifespan of 10+ years.
- **Expandable Power:** Capacity can be expanded up to 10.24kWh by connecting up to four B2 Smart Extra Batteries (sold separately).
- **Rapid Recharging:** Supports up to 2100W solar input and 1600W AC input, allowing for a full charge in as little as 36 minutes (AC+Solar).
- **Versatile Outputs:** Equipped with 15 output ports, including 5 AC outlets, 2 USB-C PD100W, 4 USB-A QC 3.0, 12V/30A Anderson, 12V/10A car outlet, and DC5521 ports.
- **Uninterruptible Power Supply (UPS):** Features a fast <20ms switchover time for seamless power during outages.
- **Smart Control:** Monitor and control the power station remotely via a dedicated mobile application.



*Image: A detailed diagram highlighting the 15-in-1 power hub of the OUPES Mega 2, showcasing all available output ports including AC, USB, Anderson, and DC connections.*

### 3. WHAT'S IN THE BOX

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Upon unpacking your OUPES Mega 2, please ensure all the following components are present:

- 1x OUPES Mega 2 Portable Power Station
- 1x OUPES 240W Portable Solar Panel
- 1x AC Charging Cable
- 1x Anderson Extension Cable
- 1x Car Lighter to Anderson Adapter Cable
- 1x DC7909 to Anderson Adapter Cable
- 1x MC.4 to Anderson Adapter Cable

- 1x User Manual (this document)

## 4. SETUP

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### 4.1 Initial Charge

Before first use, it is recommended to fully charge your OUPES Mega 2. Connect the AC charging cable to a standard wall outlet and to the AC input port on the power station. The display will indicate charging status. For faster charging, combine AC and solar input.

### 4.2 Solar Panel Connection

To charge using the 240W portable solar panel:

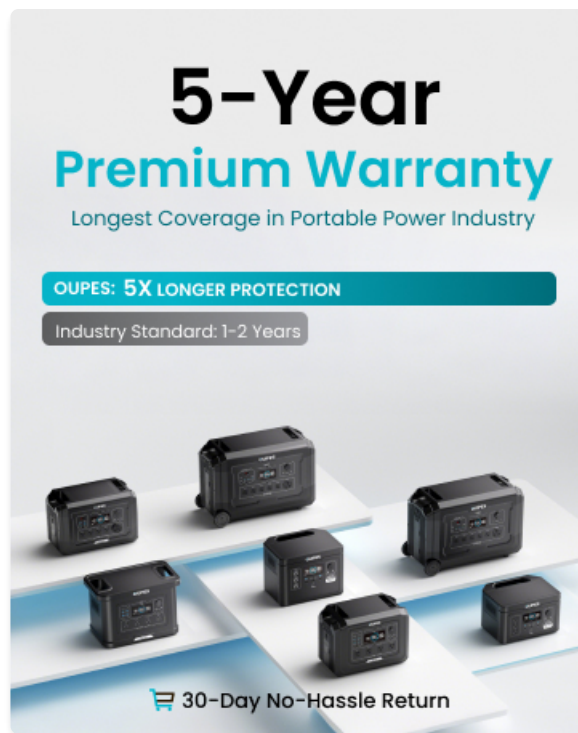
1. Unfold the solar panel and position it in direct sunlight for optimal efficiency.
2. Connect the MC.4 to Anderson adapter cable to the solar panel's output.
3. Connect the Anderson end of the adapter cable to the solar input port on the OUPES Mega 2.



*Image: The OUPES Mega 2 power station positioned outdoors with multiple solar panels, demonstrating its rapid recharge capabilities from solar and combined AC+Solar sources.*

### 4.3 Expanding Capacity (Optional)

The OUPES Mega 2 can be expanded by connecting B2 Smart Extra Batteries. Up to four extra batteries can be daisy-chained to increase the total capacity to 10.24kWh. Refer to the B2 Smart Extra Battery manual for specific connection instructions.



*Image: An OUPES Mega 2 power station connected to several B2 Smart Extra Batteries, illustrating the system's expandable capacity up to 10.24kWh for extended power needs.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Powering On/Off

Press and hold the main "POWER" button located on the front panel to turn the unit on or off. The LCD display will illuminate, showing battery status and output information.

### 5.2 Using AC Outputs

The OUPES Mega 2 features 5 AC outlets providing 2500W continuous pure sine wave power (100-120V). Press the "AC" button on the front panel to activate the AC outputs. Plug your devices into the desired outlets. Ensure the total wattage of connected devices does not exceed 2500W to prevent overload.

### 5.3 Using DC Outputs

The unit includes various DC output options:

- **12V/30A Anderson Port:** Ideal for connecting RV batteries or other high-power 12V DC devices. Activate by pressing the "DC" button in the 12V/30A section.
- **12V/10A Car Outlet:** For standard car accessories. Activate by pressing the "DC" button in the 12V/10A section.
- **DC5521 Ports:** Two 12V/10A ports for smaller DC devices. Activate by pressing the "DC" button in the 12V/10A section.

### 5.4 Using USB Outputs

The OUPES Mega 2 offers multiple USB ports for charging mobile devices:

- **USB-C PD100W Ports (x2):** For fast charging compatible laptops, tablets, and smartphones.
- **USB-A QC 3.0 Ports (x4):** For quick charging a wide range of USB-compatible devices.

Activate all USB outputs by pressing the "DC" button in the USB section.

## 5.5 Smart APP Control

Download the OUPES mobile application to monitor and control your power station remotely. The app allows you to view real-time charging data, set recharging speeds, manage AC timeout settings, and more. Ensure Bluetooth is enabled on your device and the power station for connection.



*Image: A smartphone screen showing the OUPES application, demonstrating remote control and real-time monitoring features for the power station.*

## 5.6 Uninterruptible Power Supply (UPS) Function

When the OUPES Mega 2 is connected to an AC wall outlet and has devices plugged into its AC outputs, it can function as a UPS. In the event of a power outage, the unit will automatically switch to battery power within <20ms, providing continuous power to connected devices without interruption.

## 6. CHARGING

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The OUPES Mega 2 offers multiple charging methods to suit your needs:

- **AC Charging:** Connect the AC charging cable to a standard wall outlet. The unit supports up to 1600W AC charging, reaching a full charge in approximately 1.3 hours.
- **Solar Charging:** Utilize the included 240W solar panel or other compatible solar panels (up to 2100W MPPT input). Charging time varies based on sunlight intensity and panel wattage.
- **AC + Solar Charging:** Combine both AC and solar inputs for the fastest recharging. With up to 3700W combined input, the unit can achieve a full charge in approximately 0.6 hours.

## 7. MAINTENANCE

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- **Battery Care:** The LiFePO4 battery is designed for long life. For optimal performance, avoid completely draining the battery frequently. Store the unit with at least 50% charge if not used for extended periods.
- **Operating Temperature:** The unit operates best within a temperature range of 30°F to 104°F (approximately -1°C to 40°C). Avoid charging the LiFePO4 battery below 32°F (0°C) to prevent

damage and ensure longevity.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the power station. Do not use liquid cleaners or immerse the unit in water.
- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.

## 8. TROUBLESHOOTING

- **Unit Not Turning On:** Ensure the battery is charged. If the unit has been stored for a long time, it may require an initial charge.
- **No Output from Ports:** Verify that the specific output section (AC, DC, USB) is activated by pressing its respective button. Check if the device being powered is within the wattage limits of the port and the overall unit.
- **Overload Protection:** If an overload occurs, the unit's circuit breaker may trip. Disconnect some devices and reset the circuit breaker located on the back panel.
- **Slow Charging:** Ensure solar panels are in direct sunlight and free from obstructions. For AC charging, verify the cable is securely connected. Check the app for charging speed settings.
- **App Connectivity Issues:** Ensure Bluetooth is enabled on both your mobile device and the power station. Restart the app and the power station if connection problems persist.

## 9. SPECIFICATIONS

Feature	Specification
Brand	OUPES
Model Name	Mega 2
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Capacity	2048Wh
AC Output (Continuous)	2500W (Pure Sine Wave 100-120V)
AC Output (Surge)	5400W
Expandable Capacity	Up to 10.24kWh with B2 Smart Extra Batteries
AC Input	1600W Max
Solar Input	2100W MPPT Max (12-150VDC, 15A Max)
AC+Solar Max Charging	3700W
UPS Switchover Time	<20ms
USB-C Output	2x PD100W
USB-A Output	4x QC 3.0 (18W Max)
DC Output (Anderson)	1x 12V/30A
DC Output (Car/DC5521)	1x 12V/10A Car, 2x 12V/10A DC5521


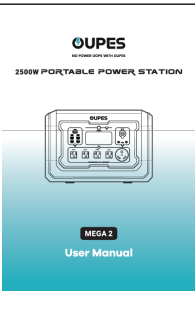
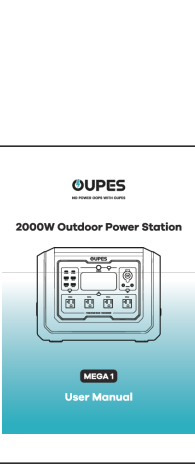
Dimensions (L x W x H)	18.1" x 10.6" x 12"
Weight	48.5 lbs
Material	Plastic, Rubber, Aluminum

## 10. WARRANTY AND SUPPORT

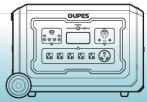
The OUPES Mega 2 Portable Power Station comes with a **5-year warranty**, ensuring long-term reliability and peace of mind. For technical support, warranty claims, or any inquiries, please refer to the contact information provided on the official OUPES website or your purchase documentation.

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### Related Documents - Mega 2

	<p><a href="#">OUPES Mega 2 2500W Portable Power Station User Manual</a></p> <p>Comprehensive user manual for the OUPES Mega 2 2500W portable power station, covering setup, operation, charging methods, troubleshooting, and maintenance.</p>
	<p><a href="#">OUPES MEGA 2 2500W Portable Power Station User Manual</a></p> <p>Comprehensive user manual for the OUPES MEGA 2 2500W Portable Power Station. Learn about its specifications, functions, charging methods, troubleshooting, and maintenance for reliable off-grid power.</p>
	<p><a href="#">OUPES 2000W LiFePO4 Power Station &amp; 240W Solar Panel Kit - Portable Generator</a></p> <p>Explore the OUPES 2000W portable power station, featuring a 4500W peak output and a long-lasting LiFePO4 battery. This generator kit includes a 240W solar panel for renewable charging, offering reliable power for camping, emergencies, and off-grid use. Key specifications and features detailed.</p>





### Mega 3

### 3600W Portable Power Station

User Manual

[OUPES Mega 3 Portable Power Station User Manual](#)

Comprehensive user manual for the OUPES Mega 3 3600W Portable Power Station, covering safety instructions, product specifications, operation, charging methods, troubleshooting, and compliance.



### 2000W Outdoor Power Station



MEGA 1

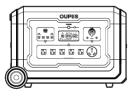
## User Manual

[OUPES 2000W Outdoor Power Station MEGA 1 User Manual](#)

Comprehensive user manual for the OUPES 2000W Outdoor Power Station MEGA 1, detailing specifications, operation, charging methods, troubleshooting, and maintenance for optimal use.



### 3600W PORTABLE POWER STATION



MEGA 3

## User Manual

[OUPES Mega 3 Portable Power Station User Manual | 3600W 3072Wh](#)

Comprehensive user manual for the OUPES Mega 3 Home Backup & Portable Power Station.  
Learn how to safely operate, charge, and maintain your 3600W, 3072Wh power station for reliable backup power.