

## Greenery Q2402M

# Greenery SolarPlay Q2402M 2500W Portable Power Station User Manual

Model: Q2402M | Brand: Greenery

## 1. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the SolarPlay Q2402M Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, heat sources, and direct sunlight.
- Do not use or store the unit in a bathroom or in areas exposed to water or moisture.
- Ensure proper ventilation during use to prevent overheating.
- Keep out of reach of children and pets.
- Use only recommended accessories and cables.
- In case of fire, use a dry powder fire extinguisher.

## 2. PRODUCT OVERVIEW

The Greenery SolarPlay Q2402M is a high-capacity portable power station designed for various applications, including home backup, camping, and outdoor activities. It features a 2304Wh LiFePO4 battery with a 2500W continuous output (5000W peak) and supports ultra-fast charging.

### Key Features:

- **High Capacity & Output:** 2304Wh LiFePO4 battery with 2500W AC output (5000W peak).
- **Fast Charging:** Recharges 0-100% in 1.5 hours via AC+solar dual input (1100W max).
- **Multiple Output Ports:** 14 ports including 4 AC outlets, USB-A, USB-C (PD 100W), cigarette lighter, and DC5521.
- **UPS Functionality:** Built-in Uninterruptible Power Supply (UPS) with 0.08s automatic switching.
- **Advanced Safety:** Smart BMS/MCU protection against overcharge, short circuits, and extreme temperatures.
- **Portability:** Ergonomic handle and compact design for easy transport.



Figure 2.1: Front view of the SolarPlay Q2402M Portable Power Station, showing the display and various ports.

### 3. PACKAGE CONTENTS

Upon unboxing, please verify that all items listed below are included in your package:

- 1 x SolarPlay Q2402M Portable Power Station
- 1 x AC Charging Cable
- 1 x XT90 to MC4 Solar Charging Cable
- 1 x User Manual

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Video 3.1: Unboxing the SolarPlay 2500W Portable Power Station, showing the contents of the package including the power station, cables, and manual.

### 4. SETUP GUIDE

#### 4.1 Initial Charging

Before first use, it is recommended to fully charge the power station. The Q2402M supports multiple charging methods:

- **AC Wall Outlet:** Connect the provided AC charging cable to the AC input port on the side of the power station and then to a standard wall outlet. The unit can charge from 300W to 1100W.
- **Solar Panel:** Connect compatible solar panels (up to 500W) using the XT90 solar charging cable to the XT90 input port.
- **Car Charger:** The unit can also be charged via a car charger (adapter not included).
- **AC + Solar Dual Input:** For the fastest charging, combine AC and solar input for a maximum of 1100W, achieving 0-100% charge in approximately 1.5 hours.

# Integrated **BMS** Management System



Figure 4.1: Illustration of the four available charging methods for the power station.

## 4.2 Understanding the Display

The LCD display provides real-time information about the power station's status, including input wattage, output wattage, battery percentage, and estimated remaining runtime.

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Video 4.2: A detailed look at the power station's display, demonstrating input and output readings during charging and discharge.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On/Off

To power on the unit, press and hold the main power button until the display illuminates. To power off, press and hold the same button until the display turns off.

### 5.2 Using AC Outlets

The power station features 4 AC outlets. To activate them, press the AC ON/OFF button located near the outlets on the side panel. The display will indicate AC output is active. Ensure the total wattage of connected devices does not exceed 2500W.

# 14 Output Ports

## 2500W/2304Wh



3 x USB-C  
1 x USB-C



XT90



XT60



Cigarette lighter output



2 x AC- outputs



2x DC5521



2 x USB-A



AC-input



Figure 5.1: Overview of the 14 available output ports on the power station.

### 5.3 Using DC and USB Ports

The unit provides various DC and USB ports for charging smaller devices:

- 2 x USB-A (QC3.0)
- 3 x USB-C (PD 20W)
- 1 x USB-C (PD 100W)
- 1 x Cigarette Lighter Port
- 2 x DC5521 Ports
- 1 x XT60 Port

Press the respective ON/OFF buttons for DC and USB sections to activate these ports.

### 5.4 Adjustable Input Power Settings

The power station allows adjustment of input power from 300W to 1100W. This feature helps protect electrical devices and extends battery life by allowing slower charging when full speed is not required.

# 5 Adjustable Input Power Settings

A stable voltage output protects electrical devices and extends battery life



Figure 5.2: The input power adjustment dial on the power station.

## 5.5 Uninterruptible Power Supply (UPS) Function

The built-in UPS function provides seamless power transition during outages. When connected to an AC power source, the unit acts as a pass-through. In case of a power failure, it automatically switches to battery backup within 0.08 seconds, protecting sensitive electronics.



Figure 5.3: The power station providing uninterrupted power to a workstation.

## 5.6 LED Lighting

The power station includes an integrated LED light bar. Press the light button to cycle through different modes: constant on, SOS signal, and flash mode. This is useful for emergencies or general illumination.

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Video 5.4: Demonstration of the LED lighting features, including constant, SOS, and flash modes.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your SolarPlay Q2402M Portable Power Station.

- **Storage:** For optimal performance and to prevent damage, store the power station indoors when not in use. Avoid prolonged exposure to outdoor elements, which can degrade components.
- **Battery Care:** The LiFePO4 battery is rated for 3500+ cycles. To maximize battery life, avoid fully discharging the unit frequently. Store the unit with at least 50% charge if not used for extended periods.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation grilles on the sides are clear of obstructions to prevent overheating.

# 4 Charging Methods



Figure 6.1: The integrated Battery Management System (BMS) ensures safe operation and battery longevity.

## 7. TROUBLESHOOTING

If you encounter issues with your SolarPlay Q2402M, please refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. If the battery is completely depleted, connect it to an AC source for a few minutes before attempting to power on.
- **No Output from Ports:** Verify that the specific output section (AC, DC, USB) is turned on using its respective ON/OFF button. Check if the connected device is within the power station's wattage limits.
- **Overload Protection Activated:** If the unit shuts down or displays an overload warning, disconnect some devices. The power station has protection against overcurrent and surge.
- **Charging Issues:** Ensure all charging cables are securely connected. For solar charging, verify that solar panels are receiving adequate sunlight and are compatible.
- **Unusual Noise/Smell:** Immediately power off the unit and disconnect all devices and charging cables. Contact customer support.

## 8. SPECIFICATIONS

Feature	Specification
Brand	Greenery

Model Name	Q2402M portable power station
Model Number	Q2401
Battery Type	LiFePO4
Capacity	2304Wh
AC Output (Continuous)	2500W
AC Output (Peak)	5000W
AC Input Max	1100W
Solar Input Max	500W
Charging Time (AC+Solar)	1.5 hours (0-100%)
USB-A Ports	2 (QC3.0)
USB-C Ports	3 (PD 20W), 1 (PD 100W)
DC Ports	2 (DC5521), 1 (XT60)
Cigarette Lighter Port	1
Dimensions (LxWxH)	15.39" x 11.22" x 12.56"
Item Weight	47.4 Pounds
Operating Temperature	-20°C to 60°C

## 9. WARRANTY AND SUPPORT

The SolarPlay Q2402M Portable Power Station comes with an industry-leading **18-month warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For technical support, warranty claims, or any inquiries, please contact Greenery-US customer service through the Amazon platform or visit the official Greenery website.

Manufacturer: Shenzhen Qianxing Technology Co., Ltd