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solarplay Q2402M

SolarPlay Q2402M Portable Power Station User Manual

Model: Q2402M

1. Introduction

This manual provides essential information for the safe and efficient operation of your SolarPlay Q2402M Portable Power Station. Please read this manual thoroughly before use and retain it for future reference.

2. What's Included

Upon unpacking, please verify that all items listed below are present and in good condition:

- SolarPlay Q2402M Portable Power Station
- 200W Solar Panel
- AC Charging Cable
- XT90 to MC4 Solar Charging Cable
- User Manual



Image: The SolarPlay Q2402M Portable Power Station shown alongside its accompanying 200W solar panel, illustrating the complete package contents.

Video: An unboxing video demonstrating the contents of the SolarPlay 2500W 2304Wh Portable Power Station package, including the power station, solar charging cable, AC power cable, and instruction manual.

3. Product Overview

The SolarPlay Q2402M is a high-capacity portable power station designed for various applications, from home backup to outdoor adventures. It features a durable LiFePO4 battery and multiple output ports.

3.1 Front Panel



Image: The front panel of the SolarPlay Q2402M, highlighting the digital display, DC outputs (12V/10A, 12V/25A, 12V/3A), USB-A (QC3.0), USB-C (PD 20W, PD 100W) ports, and the LED light bar.

- **Digital Display:** Shows input/output wattage, battery level, and other status indicators.
- **DC Outputs:** Includes 12V/10A, 12V/25A, and 12V/3A ports for various DC devices.
- **USB Ports:** Two USB-A (QC3.0), three USB-C (PD 20W), and one USB-C (PD 100W) for charging mobile devices.
- **LED Light Bar:** Provides illumination with SOS and Flash modes.
- **Power Button:** Turns the unit on/off.

3.2 Rear Panel



Image: The rear panel of the SolarPlay Q2402M, featuring four AC outlets, an AC input port, and an XT90 input port for solar charging.

- **AC Outlets:** Four standard AC outlets (2500W total, 4800W peak) for household appliances.
- **AC Input:** For charging the power station via a wall outlet.
- **XT90 Input:** For connecting solar panels or other DC charging sources.
- **AC ON/OFF Switch:** Controls the AC output.

4. Setup and Initial Charging

Before first use, it is recommended to fully charge the power station.

4.1 AC Charging

1. Connect the provided AC charging cable to the AC input port on the rear of the power station.
2. Plug the other end of the AC charging cable into a standard wall outlet.
3. The display will indicate charging status. The unit can charge from 0-100% in approximately 1.5 hours with dual input (AC+Solar) or 2 hours with 1100W AC charging.

4.2 Solar Charging

1. Unfold the 200W solar panel and place it in direct sunlight.
2. Connect the XT90 to MC4 solar charging cable to the XT90 input port on the rear of the power station.
3. Connect the MC4 connectors to the solar panel.
4. The display will show solar input wattage. Full charge via solar can take approximately 4.5 hours (80% within 4.5 hours).



Image: The SolarPlay Q2402M power station connected to both an AC wall outlet and a solar panel for simultaneous charging, illustrating its dual-charge capability.

4.3 Car Charging

The power station can also be charged using a car charger (not included, but compatible with adjustable input 300W-1100W). Connect the appropriate car charging cable to the XT90 input port.

5. Operating Instructions

5.1 Turning On/Off

Press and hold the main power button on the front panel to turn the power station on or off.

5.2 Using AC Outputs

1. Ensure the power station is on.
2. Press the AC ON/OFF switch on the rear panel to activate the AC outlets.
3. Plug your AC devices into the outlets.
4. The display will show the AC output wattage.

5.3 Using DC and USB Outputs

The DC and USB ports are typically active when the unit is on. Simply plug in your devices to begin charging or powering them.

5.4 UPS Function (Uninterruptible Power Supply)

The Q2402M features a built-in UPS function. When connected to an AC wall outlet and powering devices, it can automatically switch to battery backup within 0.08 seconds during a power outage. This ensures continuous power for connected devices.



Image: The SolarPlay Q2402M power station connected to a computer and monitor, demonstrating its Uninterruptible Power Supply (UPS) capability during a power interruption.

5.5 LED Lighting

Press the LED light button on the front panel to cycle through lighting modes: On, SOS, and Flash. Press again to turn off.

6. Maintenance and Storage

- **Cleaning:** Use a dry, soft cloth to clean the exterior. Do not use abrasive cleaners or immerse in water.
- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, fully charge the unit every 3-6 months, even if not in use. The LiFePO4 battery is rated for 3,500+ cycles to 80% capacity.
- **Temperature:** Operate and store within the recommended temperature range (-20°C to 60°C).



Image: The SolarPlay Q2402M power station shown powering a car refrigerator, electric hammer, and rice cooker, illustrating its versatility for different power needs.

7. Troubleshooting

Problem	Possible Cause	Solution
Power station does not turn on.	Battery is depleted.	Charge the power station using AC or solar input.
AC outlets not working.	AC output switch is off. Overload protection activated.	Ensure AC switch is on. Reduce load or reset overload protection switch.
Solar charging not working.	Insufficient sunlight. Incorrect connection.	Ensure panels are in direct sunlight. Verify all cable connections are secure.

Problem	Possible Cause	Solution
Device not charging via USB/DC.	Device incompatible. Port not active.	Check device compatibility. Ensure power station is on.

8. Specifications

Feature	Detail
Model	Q2402M
Battery Capacity	2304Wh LiFePO4
AC Output	2500W (4800W Peak), 110V
USB-A Output	2x QC3.0
USB-C Output	3x PD 20W, 1x PD 100W
DC Output	1x Cigarette Lighter (12V/10A), 2x DC5521 (12V/3A)
XT60 Output	1x XT60
AC Input	Up to 1100W
Solar Input	Up to 1100W (via XT90)
Charging Time (AC)	Approx. 2 hours (1100W)
Charging Time (AC+Solar)	Approx. 1.5 hours
Dimensions (L x W x H)	15.39" x 11.22" x 12.56"
Weight	47.4 lbs (21.5 kg)
Operating Temperature	-20°C to 60°C

9. Safety Information

- Do not disassemble, repair, or modify the unit.
- Keep away from fire and high temperatures.
- Do not expose to liquids.
- Use only approved accessories and charging cables.
- Keep out of reach of children.
- Ensure proper ventilation during use and charging.

10. Warranty and Support

The SolarPlay Q2402M Portable Power Station comes with an industry-leading 5-year manufacturer's warranty. For warranty claims, technical support, or any inquiries, please contact SolarPlay customer service.
For more information, visit the official SolarPlay store:SolarPlay Store

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