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SolarPlay Q2501

SolarPlay Q2501 Portable Power Station User Manual

Model: Q2501 | Brand: SolarPlay

1. Product Overview

The SolarPlay Q2501 is a high-capacity portable power station designed for various applications, including emergency home backup, camping, outdoor activities, and professional use. It features a durable LiFePO4 battery, multiple output ports, and fast charging capabilities.



Figure 1: Front view of the SolarPlay Q2501 Portable Power Station, showing the display, control buttons, and various DC and USB output ports.



Figure 2: Rear view of the SolarPlay Q2501 Portable Power Station, highlighting the AC input, AC output ports, and XT90 input.

Key Features:

- **High Capacity:** 2160Wh battery with 2400W (4800W Peak) AC output.
- **Long-lasting Battery:** LiFePO4 battery with over 3500 charge/discharge cycles, offering a lifespan of up to 15 years.
- **Advanced Protection:** Equipped with a Battery Management System (BMS) and Control Unit (MCU) for managing cell voltage and temperature, providing eight-fold protection (cryoprotection, overvoltage, high temperature, low voltage, overload, overcharge, short circuit, overcurrent).
- **Fast Charging:** Fully charged in approximately 1.5 hours with dual charging (AC adapter + solar panel).
- **Multiple Output Ports:** 14 ports including 4 AC, 2 USB-A (QC3.0), 3 USB-C (PD 20W), 1 USB-C (PD 100W), 1 cigarette lighter, 2 DC5521, and 1 XT60.
- **UPS Functionality:** Uninterruptible Power Supply (UPS) feature with 0.08-second switchover time during power outages.

2. What's Included

Upon unboxing your SolarPlay Q2501 Portable Power Station, please verify that all the following components are present:

- SolarPlay Q2501 Portable Power Station
- AC Charging Cable
- MC4 XT90 Solar Charging Cable
- Instruction Manual (this document)

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Video 1: Unboxing the SolarPlay Q2501 Portable Power Station, showing the contents of the package including the power station, AC charging cable, MC4 XT90 solar charging cable, and the instruction manual.

3. Setup and Charging

Initial Setup:

1. Unpack the power station and all accessories from the box.
2. Place the power station on a stable, flat surface in a well-ventilated area.
3. Ensure all ports are clean and free from debris before connecting any cables.

Charging Methods:

The SolarPlay Q2501 offers multiple charging options:

- **AC Wall Outlet:** Connect the AC charging cable to the power station's AC input port and then to a standard wall outlet. The device can be fully charged in approximately 2 hours at 1100W.
- **Solar Panels:** Connect compatible solar panels (11.5V to 48V, max. 500W) using the MC4 XT90 solar charging cable. Charging time with solar panels is approximately 6-7 hours (with 200W panels).
- **Car Cigarette Socket:** Use a 12V/24V car cigarette socket for charging (120W input). Full charge time is approximately 17 hours.
- **Dual Charging (AC + Solar):** Combine AC adapter and solar panel charging for the fastest charge, reaching full capacity in approximately 1.5 hours.

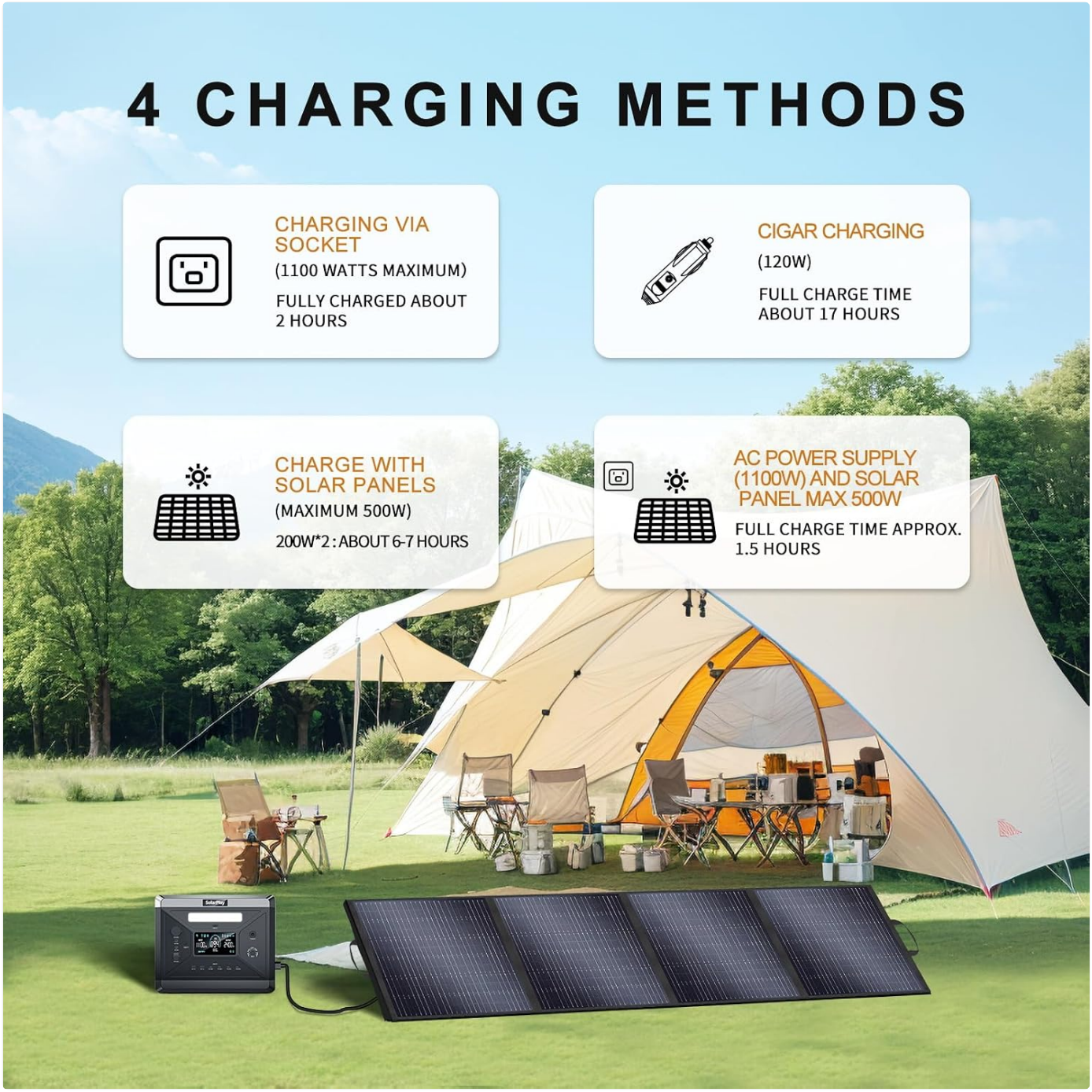


Figure 3: Diagram illustrating the four charging methods for the SolarPlay Q2501: AC wall socket, solar panels, car cigarette socket, and combined AC + solar charging.

Adjustable Input Power:

The power station allows you to adjust the AC input power to suit your needs and extend battery life. Available settings are 300W, 500W, 700W, 900W, and 1100W.



Figure 4: Image showing the adjustable input power dial on the SolarPlay Q2501, with options from 300W to 1100W and corresponding charging times.

4. Operating Instructions

Powering On/Off:

Press and hold the main Power button on the front panel to turn the unit on or off. The LCD screen will illuminate when the unit is powered on.

Using Output Ports:

The SolarPlay Q2501 features 14 output ports to power various devices simultaneously:

- **AC Ports (x4):** For household appliances requiring 100-120V AC, 50/60Hz. Total rated output 2400W.
- **USB-A Ports (QC3.0 x2):** For fast charging compatible smartphones and tablets.

- **USB-C Ports (PD 20W x3, PD 100W x1):** For charging modern devices like laptops, tablets, and smartphones that support Power Delivery.
- **Cigarette Lighter Port (12V/10A x1):** For car accessories.
- **DC5521 Ports (12V/3A x2):** For small DC appliances.
- **XT60 Port (12V/25A x1):** For higher power DC devices.



Figure 5: Detailed diagram of the SolarPlay Q2501's front and rear panels, labeling all input and output ports, including AC, DC, USB, and the main power switch.

UPS Functionality:

The Q2501 features an Uninterruptible Power Supply (UPS) function. When connected to commercial power and powering devices via its AC outlets, it will automatically switch to battery power within 0.08 seconds in case of a power outage, ensuring continuous operation for connected devices.



Figure 6: Illustration demonstrating the UPS function of the SolarPlay Q2501, showing seamless power transfer to connected devices during a power outage.

LED Lighting:

The power station includes an integrated LED light. Press the "LIGHT ON/OFF" button to cycle through different lighting modes: On, SOS, and Flash.

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Video 2: Demonstration of the LED lighting features on the SolarPlay Q2501, showing how to activate the light, SOS mode, and flash mode.

5. Maintenance and Care

- Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid exposing the unit to water or excessive humidity.
- Clean the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health.
- Ensure proper ventilation during operation to prevent overheating.

6. Troubleshooting

Problem	Possible Cause	Solution
Unit does not power on.	Battery is completely depleted.	Connect to AC power for charging.
AC outlets not working.	AC output not enabled; Overload protection triggered.	Ensure AC ON/OFF button is pressed. Reduce connected load if overloaded.
Slow charging via solar panel.	Insufficient sunlight; Panels not properly aligned; Incompatible panels.	Ensure panels are in direct sunlight and angled correctly. Verify panel specifications.
Display shows error code.	Internal system fault.	Refer to the specific error code in the full manual or contact customer support.

7. Specifications

Feature	Detail
Model Name	Q2501 Power Station
Battery Type	LiFePO4
Capacity	2160Wh
AC Output	2400W (Rated), 4800W (Peak)
AC Input	1100W Max (Adjustable)
Solar Input	11.5V-48V, 500W Max
USB-A Output	QC3.0 x2
USB-C Output	PD 20W x3, PD 100W x1
DC Output	Cigarette Lighter (12V/10A), DC5521 (12V/3A x2), XT60 (12V/25A)
Dimensions	11.22"L x 12.56"W x 15.39"H
Weight	47.4 Pounds (21.5 kg)
UPS Switchover Time	0.08 seconds

8. Warranty and Support

SolarPlay offers a **5-Year Manufacturer Warranty** for the Q2501 Portable Power Station. This warranty covers malfunctions due to manufacturing defects.
Should your product malfunction within the warranty period, please contact SolarPlay customer support for assistance with returns or refunds. For further support or inquiries, please visit the official SolarPlay store on Amazon or refer to the contact information provided in the full instruction manual.

Note: The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

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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

Where can I find the serial number on my SolarPlay Q2501 Portable Power Station?

On the SolarPlay Q2501 Portable Power Station, the serial number (SN) is typically located in one of the following places: Bottom of the Unit: Check the underside of the power station for a white...

Read full answer

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