

SolarPlay Q3600

SolarPlay Q3600 Portable Power Station User Manual

Model: Q3600 | Brand: SolarPlay

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your SolarPlay Q3600 Portable Power Station. Please read this manual thoroughly before using the product and retain it for future reference.

The SolarPlay Q3600 is a high-capacity portable power station featuring a 3840Wh LiFePO4 battery and a 3600W AC output (5500W surge). It is designed to provide reliable power for various applications, including home backup during outages, RV travel, camping, and outdoor adventures.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product:

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from heat sources, direct sunlight, and flammable materials.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Use only approved accessories and charging cables.
- In case of fire, use a dry powder fire extinguisher. Do not use water.
- The unit is UL-certified with 12 safety protocols, including protection against overload, short circuit, overvoltage, undervoltage, overheating, and low temperature.

3. WHAT'S IN THE BOX

Verify that all the following items are included in your package:

- 1 x SolarPlay Q3600 Portable Power Station
- 1 x 1.5m AC Charging Cable
- 1 x 0.6m Solar Charging Cable
- 1 x 1m Car Charging Cable
- 1 x Pouch
- 1 x Dust Cover
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW

Familiarize yourself with the components and features of your Q3600 power station.



Figure 4.1: Front view of the SolarPlay Q3600 Portable Power Station, highlighting the main display and various output ports.

17 Versatile Outlets



Figure 4.2: Detailed view of the 17 versatile output and input ports on the SolarPlay Q3600, including AC, NEMA TT-30, USB-A, USB-C, Cigarette lighter, 12V_XT60, and DC5521.

Built in **LiFePO4** Battery

3000+ Lifecycle to 80%, Supply for up to **10 Years**



Figure 4.3: Internal structure of the Q3600, illustrating the high-performance LiFePO4 battery cells and the Battery Management System (BMS).

5. SETUP AND INITIAL CHARGING

5.1 Unpacking and Inspection

Carefully remove the power station and all accessories from the packaging. Inspect for any signs of damage. If any components are missing or damaged, contact customer support immediately.

5.2 Initial Charging

Before first use, fully charge the SolarPlay Q3600. This ensures optimal battery performance and longevity.

- AC Charging:** Connect the 1.5m AC charging cable to the AC input port on the power station and then to a standard wall outlet. The display will indicate charging status. A full charge takes approximately 2.5 hours.
- Solar Charging:** Connect compatible solar panels (up to 2000W max input) using the 0.6m solar charging cable to the XT90 input port. Position panels in direct sunlight for efficient charging.
- Car Charging:** Use the 1m car charging cable to connect the power station to your vehicle's 12V cigarette

lighter outlet. This method is slower and recommended for supplemental charging.

4. **Combined Charging:** For the fastest charging, combine AC and solar panel input. This can achieve 0-100% charge in approximately 1.5 hours.



Figure 5.1: Illustration of various charging methods for the SolarPlay Q3600, including AC wall outlet, car charger, and solar panels.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Press and hold the main power button for 3 seconds to turn the unit on or off. The LCD display will illuminate, showing battery level and output status.

6.2 Using Output Ports

The Q3600 features 17 versatile output ports. To use a specific output group (AC, DC, USB), press the corresponding ON/OFF button located above the ports. The indicator light will turn on, signifying the ports are active.

- **AC Output:** Provides 3600W continuous power (5500W surge) for household appliances. Includes 4 standard AC outlets and 1 NEMA TT-30 port.
- **USB Output:** Includes 2 USB-A ports, 3 USB-C 20W ports, and 1 USB-C 100W port for charging mobile devices, laptops, and other USB-powered electronics.
- **DC Output:** Features a Cigarette lighter output, 12V_XT60 output, and 2 DC5521 outputs for various DC-powered devices.

6.3 Uninterruptible Power Supply (UPS) Function

When the Q3600 is connected to an AC wall outlet and has devices plugged into its AC output, it can function as an Uninterruptible Power Supply. In the event of a power outage, the unit will automatically switch to battery power within $\leq 20\text{ms}$, ensuring continuous operation for connected devices, ideal for sensitive electronics like medical equipment or servers.



Figure 6.1: The Q3600 in use, demonstrating its capability to power a computer workstation and a CPAP machine, highlighting its UPS functionality.

6.4 Portability

The Q3600 is equipped with integrated wheels and a telescopic handle, allowing for easy transport despite its 93.7

lbs weight. Extend the handle and tilt the unit to roll it to your desired location.

Foldable Cart System

Integrated wheels and telescopic handle (93.7lbs) enable easy transport



Figure 6.2: A user demonstrating the portability of the SolarPlay Q3600, utilizing its integrated wheels and telescopic handle for easy movement.

7. MAINTENANCE

7.1 Cleaning

Wipe the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.

7.2 Storage

When storing the Q3600 for extended periods, ensure it is charged to approximately 50-80% and stored in a cool, dry place away from direct sunlight and extreme temperatures. Recharge the unit every 3-6 months to maintain battery health.

8. TROUBLESHOOTING

If you encounter issues with your SolarPlay Q3600, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is depleted or power button not pressed correctly.	Charge the unit using AC or solar input. Press and hold the power button for 3 seconds.
AC output not working.	AC output not activated or device exceeds 3600W.	Press the AC ON/OFF button. Check device wattage; ensure it is within the 3600W continuous limit (5500W surge).
Slow charging.	Using a single charging method or insufficient solar input.	Ensure solar panels are in direct sunlight. Consider combining AC and solar charging for faster rates.
Overload warning on display.	Connected devices exceed the power station's output capacity.	Disconnect some devices to reduce the load. Restart the output port.

For issues not covered here, please contact SolarPlay customer support.

9. SPECIFICATIONS

Feature	Detail
Model	Q3600
Battery Type	LiFePO4
Capacity	3840Wh
AC Output (Continuous)	3600W
AC Output (Surge)	5500W
Input Voltage	110 Volts
AC Charging Time (0-100%)	Approx. 2.5 hours
Combined Charging Time (AC + Solar)	Approx. 1.5 hours (with 2000W solar input)
Lifespan	3000+ charge cycles to 80% capacity
UPS Switching Time	≤20ms
Noise Level	≤30dB
Dimensions (L x W x H)	23.9" x 11.5" x 17.99"
Weight	93.7 lbs
Material	ABS, PVC, Plastic

Feature	Detail
Safety Certifications	UL-certified, BMS eight-fold protection circuit

10. PRODUCT VIDEO OVERVIEW

Your browser does not support the video tag.

Video 10.1: An overview video demonstrating the features and capabilities of the SolarPlay Q3600 Portable Power Station, including its large capacity, LiFePO4 battery, BMS protection, and solar charging.

11. WARRANTY AND SUPPORT

The SolarPlay Q3600 Portable Power Station comes with an industry-leading **5-year warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact SolarPlay customer service through the official Greenery-US store on Amazon or visit the manufacturer's website.

Online Support: [Visit the SolarPlay Greenery Store on Amazon](#)