

SWAREY S160

SWAREY Portable Power Station S160 User Manual

Model: S160

1. INTRODUCTION

This user manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your SWAREY Portable Power Station S160. Please read this manual thoroughly before using the product and retain it for future reference.

2. PRODUCT OVERVIEW

2.1 Key Features

- 222Wh (3.7V/60Ah, 22.2V/10Ah) capacity with 300W (Surge 600W) pure sine wave AC output.
- Multiple output ports: 1 AC outlet (230V/300W), 1 USB-C PD 65W port, 1 USB QC 3.0 port, 2 USB-A ports, 1 car socket, and 2 DC ports.
- Supports three charging methods: wall socket, car charger, and solar panel (not included).
- Integrated MPPT charge controller for efficient solar charging, allowing full charge in 2 hours with a 126W solar panel.
- Compact and portable design, weighing 3.2 kg (7 lbs) with dimensions of 19 x 16 x 17 cm (7.5 x 6.3 x 6.7 inches), featuring a sturdy hidden handle.
- Equipped with an LED light offering Strong, Strobe, and SOS modes for emergencies.
- Advanced Battery Management System (BMS) for protection against over-temperature, short-circuit, over-current, over-load, and over-charge.
- Digital display shows real-time remaining power, output, and input power.

2.2 Package Contents

Please check the package contents upon unboxing:

- 1 x SWAREY Portable Power Station S160
- 1 x AC Charger
- 1 x DC-to-MC4 Cable

- 1 x Car Charger Cable
- 1 x User Manual (this document)

2.3 Product Diagram

Familiarize yourself with the various components and ports of your SWAREY Portable Power Station S160.



Figure 2.3.1: Front view of the SWAREY Portable Power Station S160, showing the display, AC outlet, USB ports, DC ports, car socket, and LED flashlight.



Figure 2.3.2: SWAREY Power Station S160 highlighting its 222Wh capacity, 8 output ports, and 300W AC power, shown in an outdoor camping scenario.

- **Digital Display:** Shows battery level, input/output wattage, and status indicators.
- **AC Output Port:** Standard UK 3-pin socket for 230V AC devices.
- **USB-C PD 65W Port:** For fast charging compatible USB-C devices.
- **USB QC 3.0 Port:** For quick charging compatible USB-A devices.
- **USB-A Ports (x2):** Standard USB-A outputs for various devices.
- **Car Socket (12V):** For devices requiring a car cigarette lighter adapter.
- **DC Output Ports (x2):** For 12V DC devices.
- **DC Input Port:** For charging the power station via AC adapter, car charger, or solar panel.
- **LED Flashlight:** Multi-mode light for illumination and emergency signaling.
- **Power Button:** To turn the unit on/off and activate/deactivate outputs.

3. SETUP

3.1 Initial Charge

Before first use, it is recommended to fully charge the SWAREY Portable Power Station. This ensures optimal battery performance and extends its lifespan.

1. Connect the provided AC charger to the DC input port on the power station.
2. Plug the AC charger into a standard wall outlet.
3. The digital display will show charging progress. The unit is fully charged when the battery indicator is full.

Initial charging typically takes approximately 3-4 hours using the wall outlet.

4. OPERATING INSTRUCTIONS

4.1 Turning On/Off

Press and hold the main power button for 3 seconds to turn the power station on or off. The digital display will illuminate when the unit is on.

4.2 Charging the Power Station

Your SWAREY Portable Power Station can be recharged using three methods:

THREE CHARGING METHODS



Figure 4.2.1: Visual representation of the three charging methods: solar panel, wall outlet, and car outlet.

1. AC Wall Outlet Charging:

Connect the provided AC charger to the DC input port and plug it into a standard wall outlet. Charging time is approximately 3-4 hours.

2. Car Charger Charging:

Use the provided car charger cable. Connect one end to the DC input port of the power station and the other end to your vehicle's 12V car socket. Charging time is approximately 4-5 hours.

3. Solar Panel Charging:

Connect a compatible solar panel (not included) to the DC input port using the provided DC-to-MC4 cable. The built-in MPPT controller optimizes solar charging efficiency. With a 126W solar panel, the unit can be fully charged in approximately 2 hours under optimal sunlight conditions.

FAST SOLAR RECHARGE

23% Conversion Efficiency



100%
in 2 Hours



126W
Maximum
Solar Input



Figure 4.2.2: SWAREY Power Station connected to a solar panel for fast solar recharging.

4.3 Using the Output Ports

The SWAREY Portable Power Station can power up to 8 devices simultaneously.



Figure 4.3.1: SWAREY Power Station demonstrating simultaneous charging of a laptop, smartphone, and tablet.

- **AC Output:** Press the AC power button to activate the AC outlet. Plug in devices requiring 230V AC power, up to 300W continuous output. The display will show AC output wattage.
- **USB Outputs (USB-C, QC 3.0, USB-A):** These ports are typically active when the unit is on. Simply plug in your USB-powered devices. The USB-C port supports Power Delivery (PD) up to 65W for fast charging compatible laptops and smartphones.
- **DC & Car Socket Outputs:** Press the DC power button to activate these outputs. Plug in your 12V DC devices or car accessories.

The digital display will show the real-time output wattage for each active section (AC, DC, USB).

4.4 LED Flashlight Function

The power station includes a multi-mode LED flashlight for various situations.



Figure 4.4.1: SWAREY Power Station with its LED flashlight illuminating a room, demonstrating Strong, Strobe, and SOS modes.

- Press the flashlight button once for Strong illumination.
- Press again for Strobe mode.
- Press a third time for SOS signal mode.
- Press a fourth time to turn off the flashlight.

5. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to wipe the exterior of the power station. Do not use abrasive cleaners or immerse the unit in water.
- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, it is recommended to charge the unit to 50-80% every 3-6 months to maintain battery health.
- **Ventilation:** Ensure the ventilation vents are not blocked during operation to prevent overheating.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely depleted.	Connect to an AC wall outlet charger for at least 10 minutes to activate.
AC output not working.	AC output not activated; device power exceeds 300W; unit is overheated.	Press the AC power button; check device wattage; allow unit to cool down.
USB/DC outputs not working.	DC output not activated; device is incompatible or faulty.	Press the DC power button; try a different device or cable.
Slow solar charging.	Insufficient sunlight; panel not optimally angled; dirty panel.	Ensure direct sunlight; adjust panel angle; clean panel surface.
Unit shuts down unexpectedly.	Overload protection activated; low battery; overheating.	Reduce connected load; recharge the unit; allow unit to cool down.

7. SPECIFICATIONS

Feature	Specification
Model	S160
Capacity	222Wh (3.7V/60Ah, 22.2V/10Ah)
AC Output	230V, 300W (Pure Sine Wave, Peak 600W)
USB-C Output	PD 65W
USB QC 3.0 Output	Yes
USB-A Output	2 ports
Car Socket Output	1 port
DC Output	2 ports
DC Input (Charging)	Supports AC adapter, car charger, solar panel (MPPT)
Max Solar Input	126W
Dimensions (L x W x H)	19 x 16 x 17 cm (7.5 x 6.3 x 6.7 inches)
Weight	3.2 kg (7 lbs)
Special Features	Digital Display, Automatic Shut Down, LED Flashlight (Strong, Strobe, SOS)
Battery Management System (BMS)	Over-temperature, short-circuit, over-current, over-load, over-charge protection

8. SAFETY INFORMATION

Please read and follow these safety precautions to prevent injury or damage to the product:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not expose the unit to fire or extreme temperatures (above 40°C/104°F or below -10°C/14°F).
- Do not use or store the unit in bathrooms or areas exposed to water or rain.

- Do not use the unit if it is damaged or has been dropped.
- Keep out of reach of children and pets.
- Ensure proper ventilation during use. Do not cover the unit.
- Use only original or certified charging cables and adapters.
- Avoid short-circuiting the output ports.
- Dispose of the product according to local regulations. Do not dispose of with household waste.

9. WARRANTY AND SUPPORT

SWAREY products are designed and manufactured to the highest quality standards. For warranty information, technical support, or any inquiries regarding your SWAREY Portable Power Station S160, please refer to the warranty card included in your package or visit the official SWAREY website for contact details.

You can also visit the [SWAREY Store on Amazon](#) for more product information and support resources.

© 2024 SWAREY. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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