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SWAREY S500+BS100

SWAREY S500 Portable Power Station with 100W Solar Panel User Manual

Model: S500+BS100

1. Product Overview

The SWAREY S500 Portable Power Station is a versatile energy solution designed for various applications, from outdoor adventures like camping and RV trips to emergency home backup. It features a robust 518Wh capacity and delivers a pure sine wave AC output of 500W (with a peak of 1000W), ensuring stable power for sensitive electronics. This package includes a 100W foldable solar panel for convenient recharging.

The power station is equipped with multiple output ports to charge up to 8 devices simultaneously, including a 500W AC outlet, a 65W USB-C port, a QC 3.0 USB port, two USB-A ports, two DC outputs, and a car cigarette lighter. The accompanying 100W solar panel features an integrated Ray Tracer for optimal angle adjustment, maximizing solar energy absorption. It also offers fast charging via its 60W USB-C PD and 18W QC3.0 USB ports, and includes a 5-in-1 XT60 cable for broad compatibility with various solar generators.



Figure 1: SWAREY S500 Portable Power Station powering various devices outdoors.

2. Safety Instructions

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire or direct sunlight to prevent overheating.
- Do not use or store the unit in a bathroom or in areas exposed to water or rain.
- Use only the provided or approved accessories.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Avoid dropping or subjecting the unit to strong impacts.
- Dispose of the product according to local regulations.

3. Package Contents

Please check that all the following items are included in your package:

- 1 x SWAREY S500 Portable Power Station (518Wh)
- 1 x SWAREY 100W Solar Panel
- 1 x Power Adapter
- 1 x Power Cable
- 1 x Car Charger
- 1 x DC-MC4 Cable
- 1 x Carrying Bag
- 1 x XT60 to 5-in-1 Cable (Anderson/MC4/DC5521/DC7450/DC7909)
- 2 x User Manuals (one for power station, one for solar panel)

4. Product Components

4.1 SWAREY S500 Portable Power Station



Figure 2: SWAREY S500 Power Station with output ports labeled.

- **AC Output Port (220V):** For household appliances.
- **USB-C Port (65W):** For fast charging compatible devices.
- **QC 3.0 USB Port:** Quick Charge enabled USB port.
- **USB-A Ports (x2):** Standard USB charging ports.
- **DC Output Ports (x2):** For DC-powered devices.
- **Car Cigarette Lighter Port:** For 12V car accessories.
- **LCD Display:** Shows battery level, input/output wattage, and status indicators.
- **Power Button:** To turn the unit on/off.

4.2 SWAREY 100W Solar Panel



Figure 3: SWAREY 100W Foldable Solar Panel.

- **Solar Cells:** Convert sunlight into electricity.
- **Ray Tracer:** Helps align the panel for optimal sun exposure.
- **Output Junction Box:** Contains DC (XT60), QC 3.0, and Type-C ports for direct device charging.
- **Foldable Design:** For portability and easy storage.

5. Setup Instructions

5.1 Charging the Power Station

Before first use, fully charge the power station.

1. **AC Wall Outlet Charging:** Connect the power adapter to the power station's input port and then plug the power cable into a standard AC wall outlet. The LCD display will show the charging status.
2. **Car Charger Charging:** Use the provided car charger to connect the power station to your vehicle's 12V cigarette lighter port.

3. **Solar Panel Charging:**
    - Unfold the 100W solar panel and place it in direct sunlight.
    - Adjust the panel's angle using the integrated Ray Tracer. Position the panel so the shadow of the black dot is centered within the circle for optimal sun exposure.
    - Connect the solar panel to the power station's input port using the DC-MC4 cable or the XT60 to 5-in-1 cable, depending on the connection type.



Figure 4: Three methods for recharging the SWAREY S500 Power Station.



Figure 5: Using the Ray Tracer for optimal solar panel positioning.

6. Operating Instructions

6.1 Turning On/Off

Press and hold the main power button for a few seconds to turn the power station on or off. The LCD display will illuminate when the unit is active.

6.2 Using Output Ports

Once the power station is on, you can activate specific output sections:

- **AC Output:** Press the AC button to enable the AC outlet. Plug in your AC-powered devices.
- **DC Output:** Press the DC button to enable the DC output ports and car cigarette lighter. Plug in your DC-powered devices.
- **USB Output:** The USB-A, QC 3.0, and USB-C ports are typically active when the unit is on. Connect your USB

devices directly.



Figure 6: Solar panel output ports for direct device charging.

6.3 Monitoring the Display

The LCD display provides real-time information:

- **Battery Level:** Indicates the remaining charge.
- **Input Wattage:** Shows the power being drawn during charging.
- **Output Wattage:** Shows the power being consumed by connected devices.
- **Status Indicators:** Icons for AC, DC, USB active, and warning signals.

7. Maintenance

- **Cleaning:** Use a dry, soft cloth to clean the unit. Do not use abrasive cleaners or solvents.
- **Storage:** Store the power station in a cool, dry place, away from direct sunlight and moisture. For long-term storage,

charge the unit to 50-80% every 3-6 months to prolong battery life.

- **Solar Panel Care:** Keep the solar panel surface clean from dust and debris for optimal performance.

8. Troubleshooting

- **Unit Not Turning On:** Ensure the battery is charged. If not, connect to a power source and try again.
- **No Output from Ports:** Check if the specific output (AC/DC) is enabled by pressing its respective button. Ensure the device connected is within the power station's wattage limits.
- **Slow Solar Charging:** Verify the solar panel is in direct sunlight and properly angled using the Ray Tracer. Check all cable connections. Cloudy weather will reduce charging efficiency.
- **Overload Protection:** If the unit shuts down, it may be due to an overload. Disconnect some devices and restart the power station.
- **Overheating:** If the unit feels excessively hot, disconnect devices and allow it to cool down in a well-ventilated area.

9. Specifications

Feature	Specification
Brand	SWAREY
Model Name	S500+BS-100
Power Station Capacity	518Wh
AC Output (Rated)	500W
AC Output (Peak)	1000W
Output Voltage	230 Volts
USB-C Output	65W Power Delivery
QC 3.0 USB Output	18W
Solar Panel Wattage	100W
Power Source	Battery, Solar
Recommended Uses	Camping
Special Features	Portable, Short-circuit protection, Overload protection, USB Port, Extra-long runtime
Product Dimensions (Power Station)	21L x 24W x 32H cm

10. Warranty and Support

The SWAREY S500 Portable Power Station and 100W Solar Panel come with a**2-year warranty** from the date of

purchase. This warranty covers manufacturing defects and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact SWAREY customer service through the retailer where you purchased the product or visit the official SWAREY website for contact information.

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.

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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