MARBERO M88S

MARBERO M88S Solar Generator and Portable Power Station User Manual

Your comprehensive guide to setting up, operating, and maintaining your MARBERO M88S Solar Generator and Portable Power Station.

1. Introduction

The MARBERO M88S Solar Generator and Portable Power Station is a versatile and robust power solution designed for various applications, including outdoor adventures, home backup, and emergency situations. This compact and lightweight device, paired with a 30W foldable solar panel, provides reliable power wherever you need it. Equipped with multiple output ports and advanced safety features, it ensures your devices stay charged and operational.

2. Package Contents

Please verify that all items listed below are included in your package:

- 1 x MARBERO 80W Portable Power Station (M88S)
- 1 x MARBERO 30W Foldable Solar Panel
- 1 x AC Power Adapter
- 1 x User Manual
- 2 x Carabiners
- 1 x 3-in-1 Connector



Image: Visual representation of the MARBERO M88S Solar Generator and its included accessories.

3. Product Overview

The MARBERO M88S is designed for ease of use and portability, featuring a compact form factor and multiple power output options.



Image: The MARBERO M88S Portable Power Station shown with its accompanying 30W foldable solar panel.

3.1. Power Station Features

- **Capacity:** 88.8Wh (8Ah/11.1V, equivalent to 24000mAh, 3.7V)
- **AC Output:** 80W continuous, 100W peak surge
- **USB Output:** 2 x USB 5V-2.1A (Total: 3.4A Max), 1 x USB 5-9V/2.1A (QC3.0)
- **USB-C Output:** 1 x USB-C 5-9V/2.1A (QC3.0)
- **DC Output:** 1 x DC 5521 port (15V 1A)
- **Built-in Battery:** High Quality Lithium-ion Batteries
- **Dimensions:** 6.81 x 5.98 x 1.18 inches
- **Weight:** Approximately 1.85 lbs
- **Power Indicator:** LED Indicators
- **Special Features:** Emergency Light, Short Circuit Protection, Overcurrent Protection, Overvoltage Protection, Undervoltage Protection, Overload Protection, Overheating Protection, Automatic Shut Down.



Image: The power station demonstrating its capability to charge multiple devices, including a laptop, tablet, and gaming console, via various ports.

3.2. Solar Panel Features

- **Rate Power:** 30W
- **USB Output:** 5V/3A, 9V/2A, 12V/1.5A
- **Type-C Output:** 5V/3A, 9V/2A, 12V/1.5A
- **DC Output:** 16.8V/1.80A (max)
- **Folding Size:** 12.4 x 9.9 x 0.8 inches
- **Unfold Size:** 25 x 12.4 x 0.8 inches
- **Weight:** 1.80 lbs
- **Conversion Rate:** Up to 25%



Image: The MARBERO M88S Portable Power Generator being used outdoors to power various small electronics.

4. Setup

4.1. Initial Charging

Before first use, it is recommended to fully charge your MARBERO M88S Power Station. You have two primary charging options:

1. **AC Wall Outlet:** Connect the provided AC power adapter to the DC input port (15V/1A) on the power station

and plug it into a standard wall outlet. A full charge typically takes 6-8 hours.

2. **Solar Panel:** Unfold the 30W solar panel and place it in direct sunlight. Connect the solar panel's DC output cable to the DC input port on the power station. Charging time varies depending on sunlight intensity, typically 6-9 hours in sufficient sunlight.



Image: Illustration of different charging methods for the power station, including wall outlet, solar panel, and car charging.

5. Operating Instructions

5.1. Turning On/Off

Press and hold the power button on the power station to turn it on or off. The LED indicators will illuminate to show the

battery level.

5.2. Using Output Ports

- **AC Outlets:** To activate the AC outlets, press the AC power button. The corresponding indicator will light up. Plug in your AC-powered devices (e.g., laptops, small appliances) into the two AC outlets. Press the button again to turn off AC power when not in use to conserve battery.
- **USB/USB-C Ports:** These ports are typically active when the unit is powered on. Simply plug in your USB or USB-C compatible devices (e.g., smartphones, tablets, drones) for charging.
- **DC Output:** The DC 5521 port can be used for devices requiring 15V/1A DC power. Use the provided 3-in-1 connector or other compatible cables.

5.3. Emergency Light Function

The power station includes an emergency light. Press the light button to cycle through different lighting modes (e.g., steady on, SOS flash). This feature is useful for camping, power outages, or signaling in emergencies.



Image: The compact size of the MARBERO M88S allows it to be used in various settings, including on an airplane, for charging personal devices.

6. Maintenance

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to 50-80% every 3-6 months to preserve battery life.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use abrasive cleaners or immerse the unit in water.
- **Battery Care:** Avoid fully discharging the battery frequently, as this can reduce its overall lifespan.

7. Troubleshooting

- **Device Not Charging:**
  - Ensure the power station is turned on.
  - Check if the specific output port (AC, USB, DC) is activated.
  - Verify that the charging cable and adapter are securely connected.
  - If using solar panel, ensure it is in direct sunlight and free from obstructions.
- **Power Station Not Charging:**
  - Ensure the AC adapter or solar panel is properly connected to the DC input port.
  - Check the power source (wall outlet or sunlight) for functionality.
- **Overload Protection Activated:**
  - If the power station shuts down, it may be due to an overload. Disconnect the device(s) causing the overload.
  - Reduce the total power consumption to below the maximum output (80W continuous, 100W surge).
  - Restart the power station.

8. Safety Information

To ensure safe operation and prolong the lifespan of your MARBERO M88S Solar Generator, please adhere to the following safety guidelines:

- Do not disassemble, repair, or modify the unit.
- Keep the device away from fire, heat sources, and direct sunlight.
- Avoid exposure to water or high humidity.
- Do not drop, puncture, or apply strong impact to the device.
- Keep out of reach of children.
- Use only original or certified compatible accessories.
- Ensure proper ventilation during use to prevent overheating.

9. Warranty and Support

MARBERO products are designed for reliability and performance. For specific warranty details and customer support, please refer to the warranty card included in your package or visit the official MARBERO website. Protection plans may also be available for extended coverage.