

MARSTEK M1200

MARSTEK M1200 Portable Power Station User Manual

Model: M1200 | Brand: MARSTEK

1. INTRODUCTION AND OVERVIEW

The MARSTEK M1200 Portable Power Station is a versatile and robust power solution designed for various applications, including outdoor camping, off-grid living, and emergency power outages. It features a high-capacity 1030Wh LiFePO4 battery with over 6000 cycles, ensuring a long lifespan. The unit supports fast AC charging, solar charging, and provides multiple output ports for a wide range of devices.



Figure 1: Front view of the MARSTEK M1200 Portable Power Station, showing the main display and various output ports.

2. WHAT'S IN THE BOX

Upon unboxing your MARSTEK M1200 Portable Power Station, please verify that all the following items are included:

- MARSTEK M1200 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- User Manual (this document)
- Professional Service Card

3. KEY FEATURES

3.1. AC Fast Charging

The M1200 supports rapid AC charging, allowing it to reach 0-80% capacity in approximately 50 minutes and a full charge in 70 minutes. This feature is ideal for quick power replenishment before trips or during limited access to power outlets.

Faster Charging 0-80% in 50 mins

50mins MARSTEK M1200

3-4 hrs Other AC Charging



Figure 2: The M1200 connected to an AC outlet, demonstrating its fast charging speed.

3.2. Long-Lasting LiFePO4 Battery

Equipped with a self-developing LiFePO4 battery cell, the M1200 offers an impressive lifespan of over 6000 cycles while maintaining 80%+ capacity. This translates to an estimated 25-year operational life under typical usage conditions.

Built to LAST 6000 Battery Cycles



Self-developing cell

6000+

6000+ cycles



LFP battery

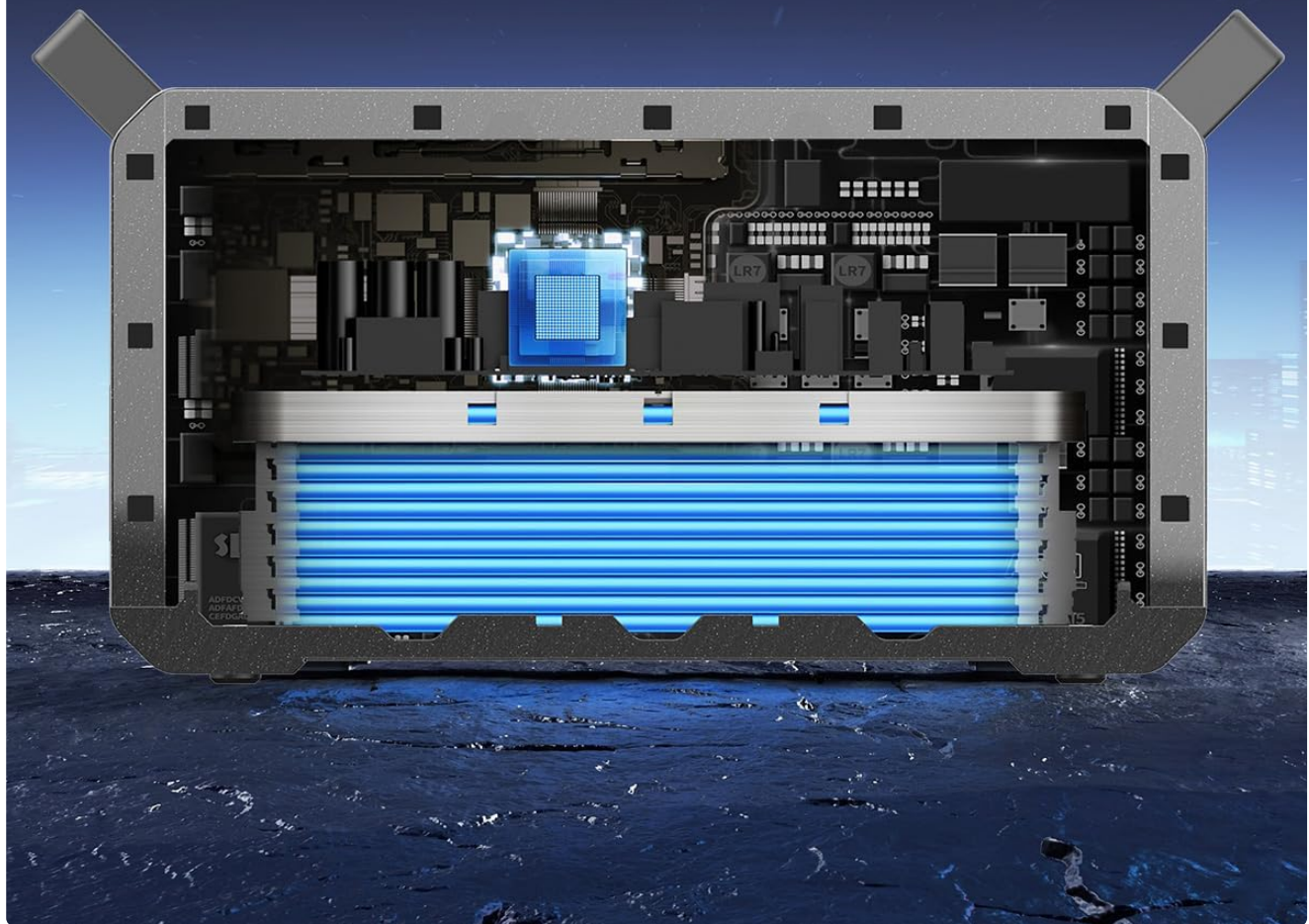


Figure 3: An internal diagram showcasing the durable LiFePO4 battery structure within the power station.

3.3. Versatile Power Output

With 12 diverse output ports and a substantial output capacity, the M1200 can power approximately 99% of common appliances. Its smart control system also supports heated devices with up to 20% more rated power.

Power Almost All Your Devices

1030Wh Capacity **1200W** Max Output



Phone(3400mAh)
60-70 times



Camping Light(20W)
50H



Projector(65W)
16H



Portable Coffee
Maker (350W)
2.5H



Figure 4: The M1200 providing power to multiple devices in an outdoor setting.

3.4. Pure Sine Wave Output

The patented circuit design ensures a stable pure sine wave output, which is crucial for sensitive electronics. This prevents damage to devices such as phones, computers, and other delicate equipment.

Pure Sine Output

Phones and Computers Friendly



Figure 5: Visual representation of the pure sine wave output from the M1200, ensuring safe power for sensitive electronics.

3.5. Smart App Control

Monitor and manage your M1200 remotely using the dedicated MARSTEK app. This allows for convenient control and real-time status updates from your smartphone.

Smart App for Control



Monitor the charging status



Remotely Control charging



Connect via Bluetooth or Wi-Fi



Figure 6: The MARSTEK app interface on a smartphone, showing remote monitoring capabilities.

3.6. Efficient Solar Charging

The M1200 supports up to 800W solar panel input, significantly reducing charging time by 33%. This provides an eco-friendly and efficient charging option for outdoor and off-grid scenarios.

Fast Solar Charging in 1.3H

1.3H

MARSTEK M1200 Charging 0-80%

4 hrs

Other 0-80%



Figure 7: The M1200 being charged by a solar panel, highlighting its fast solar charging feature.

3.7. Emergency Power Supply (EPS)

In the event of a power grid failure, the M1200 features an Emergency Power Supply (EPS) function that automatically switches to battery power in just 0.02 seconds, ensuring a seamless and continuous power supply.

3.8. Quiet Operation

The M1200 operates at a whisper-quiet 30dB during charging, making it suitable for use in quiet environments such as bedrooms or reading areas without causing disturbance.

4. SETUP GUIDE

4.1. Initial Charging

Before first use, it is recommended to fully charge your MARSTEK M1200. Use the provided AC charging cable and connect it to a standard wall outlet. The display will indicate the charging status and battery percentage. For optimal battery health, ensure the unit is fully charged before long-term storage.

4.2. Connecting Solar Panels (Optional)

To charge using solar power, connect compatible solar panels (up to 800W input) to the designated PV input port on the M1200. Position the solar panels in direct sunlight for maximum efficiency. The display will show the incoming solar wattage.

Your browser does not support the video tag.

Video 1: This video demonstrates the setup and basic functionality of the MARSTEK M1200 Power Station, including connecting charging cables and observing the display.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Press and hold the main power button for a few seconds to turn the unit on or off. The display will illuminate upon activation.

5.2. Using Output Ports

The M1200 features various output ports:

- **AC Outlets:** Plug in your AC-powered devices (e.g., laptops, small appliances) into the 1000W AC outlets. The unit supports power lifting up to 1200W for certain devices.
- **USB-A Ports:** Connect your USB-A compatible devices for charging (e.g., smartphones, tablets).
- **USB-C Ports:** Utilize the USB-C ports for faster charging of compatible devices.
- **Car Charging Port:** Provides 12V DC output for car appliances.

5.3. MARSTEK App Usage

Download the MARSTEK app from your device's app store. Follow the in-app instructions to connect your M1200 via Bluetooth or Wi-Fi. The app allows you to:

- Monitor charging status and power consumption.
- Remotely control AC/DC outputs.

- View battery health and cycle count.

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Video 2: This video provides a comprehensive overview of the MARSTEK M1200 and P1200 Portable Power Stations, showcasing their features and various use cases.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your M1200:

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the battery to approximately 50-80% every 3-6 months.
- **Cleaning:** Use a soft, dry cloth to clean the exterior. Do not use abrasive cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation vents are clear of obstructions to prevent overheating during operation or charging.
- **Battery Health:** While the LiFePO4 battery is designed for 6000+ cycles, avoiding frequent deep discharges and overcharging can further extend its life.

7. TROUBLESHOOTING

If you encounter issues with your MARSTEK M1200, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Unit does not power on.	Battery is fully discharged; Power button not pressed long enough.	Charge the unit using the AC adapter. Press and hold the power button for 3-5 seconds.
AC output not working.	AC output not enabled; Overload protection activated; Device power exceeds limit.	Ensure AC output is enabled on the display or app. Reduce connected load. Restart the unit.
Slow charging via AC.	Incorrect cable used; Environmental temperature too high/low.	Use the original AC charging cable. Charge within recommended temperature range (0-40°C).
Solar charging not working or slow.	Insufficient sunlight; Incorrect panel connection; Incompatible solar panel voltage.	Ensure panels are in direct sunlight and clean. Verify connections. Check panel specifications for compatibility.
App connection issues.	Bluetooth/Wi-Fi off; App not updated; Unit not in pairing mode.	Ensure Bluetooth/Wi-Fi is active on both devices. Update the app. Refer to app instructions for pairing.

If the problem persists after attempting these solutions, please contact MARSTEK customer support for further assistance.

8. SPECIFICATIONS







Attribute	Detail
Model Name	M1200 Portable Power Station
Battery Type	LiFePO4
Capacity	1030Wh
AC Output	2 x 1000W (Pure Sine Wave, Power Lifting 1200W)
USB-A Output	2 Ports
USB-C Output	2 Ports
Car Charging Output	12V Port
AC Charging Time (0-80%)	Approx. 50 minutes
Solar Input	Up to 800W
Dimensions (L x W x H)	13.39 x 8.66 x 10 inches
Item Weight	30.6 pounds
Operating Noise Level	30dB (during charging)

9. WARRANTY AND SUPPORT

MARSTEK products come with a standard warranty. For detailed warranty information, including coverage period and terms, please refer to the Professional Service Card included in your product packaging or visit the official MARSTEK website.

For technical support, troubleshooting assistance, or any inquiries regarding your MARSTEK M1200, please contact our customer service team. Contact details can be found on the Professional Service Card or the official MARSTEK support page.

Please retain your proof of purchase for warranty claims.

	<p>MICRO ESS B2500 Portable Power Station Instruction Manual</p> <p>Comprehensive instruction manual for the Marstek MICRO ESS B2500 portable power station, detailing specifications, operational guidelines, app integration, safety precautions, and warranty information.</p>
	<p>Marstek MICRO ESS B2500 Instruction Manual: Portable Power Station Guide</p> <p>Explore the Marstek MICRO ESS B2500 portable power station with this comprehensive instruction manual. Learn about its features, solar integration, app control, safety guidelines, and specifications. Available in multiple languages.</p>
	<p>MARSTEK MICRO ESS B2500: Bedienungsanleitung für tragbare Energie</p> <p>Umfassende Bedienungsanleitung für die MARSTEK MICRO ESS B2500 tragbare Power Station. Erfahren Sie mehr über technische Daten, Installation, App-Nutzung und Sicherheit.</p>
	<p>MARSTEK SATURN-C Balcony Solar Battery System - Product Manual & Specifications</p> <p>Detailed product manual and specifications for the MARSTEK SATURN-C Balcony Solar Battery System, featuring 800W on-grid input, 2.24kWh LFP capacity, DIY installation, and IP65 rating.</p>
	<p>Marstek B2500 Micro ESS Powerstation User Manual</p> <p>Comprehensive user manual for the Marstek B2500 Micro ESS Powerstation, covering technical specifications, product description, usage instructions, app guidance, FAQs, warranty information, and safety precautions.</p>
	<p>Zebra FXR90 Ultra-Rugged Fixed RFID Readers Accessories Guide</p> <p>Comprehensive guide to accessories for the Zebra FXR90 Ultra-Rugged Fixed RFID Reader, including power supplies, cables, antennas, and mounting hardware.</p>

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Appendix B	
RF Test Data for BT (BLE) (Conducted Measurement)	
Product Name: Power Station	
Trade Mark: Marstek	
Test Model: M1200	
Environmental Conditions	
Temperature:	25.2 °C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya In
Supervised by:	Simba Huang

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WCB Appendix B RF Test Data for BLE Hamedata Technology Co Limited M1200 Power Station 2ADOW 2ADOWM1200 m1200

Dongguan Yaxu AiT Technology Limited Appendix B Report No.:
AITSZ24051610FW1 FCC ID: 2ADOW-**M1200** RF Test Data for BT BLE Conducted
Measurement Temperature: Relative Humidity: ATM Pressure: Test Engineer:
Supervised by: Product Name: Power Station Trade Mark: Marstek Test Model:
M1200 Enviro...

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Appendix C	
RF Test Data for 2.4GWIFI (Conducted Measurement)	
Product Name: Power Station	
Trade Mark: Marstek	
Test Model: M1200	
Environmental Conditions	
Temperature:	25.2 °C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya In
Supervised by:	Simba Huang

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WCB Appendix C RF Test Data for 2 4GWIFI Part1 Hamedata Technology Co Limited M1200 Power Station 2ADOW 2ADOWM1200 m1200

Dongguan Yaxu AiT Technology Limited Appendix C Report No.:
AITSZ24051610FW2 FCC ID: 2ADOW-**M1200** RF Test Data for 2.4GWIFI Conducted
Measurement Temperature: Relative Humidity: ATM Pressure: Test Engineer:
Supervised by: Product Name: Power Station Trade Mark: Marstek Test Model:
M1200 Enviro...

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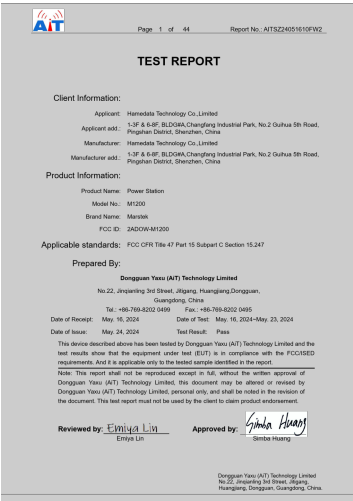
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TEST REPORT	
Client Information:	
Applicant: Hamedata Technology Co.,Limited	
Applicant add: 1-3F & 6-6F, BLDG6A,Changling Industrial Park, No.2 Guhua 5th Road, Pingshan District, Shenzhen, China	
Manufacturer: Hamedata Technology Co.,Limited	
Manufacturer add: 1-3F & 6-6F, BLDG6A,Changling Industrial Park, No.2 Guhua 5th Road, Pingshan District, Shenzhen, China	
Product Information:	
Product Name: Power Station	
Model No: M1200	
Brand Name: Marstek	
FCC ID: 2ADOW-M1200	
Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247	
Prepared By:	
Dongguan Yaxu (AiT) Technology Limited	
No.22, Jiaohang 3rd Street, Jiaohang, Huanggang Dongguan, Guangdong, China	
Tel: +86-769-8202 0499 Fax: +86-769-8202 0495	
Date of Receipt: May 16, 2024	Date of Test: May 16, 2024-May 23, 2024
Date of Issue: May 24, 2024	Test Result: Pass
This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited and the test results show that the equipment under test (EUT) is in accordance with the FCC requirements. And it is applicable only to the tested sample identified in the report.	
Note: This report shall not be reproduced except in full, without the written approval of Dongguan Yaxu (AiT) Technology Limited. This document may be altered or revised by Dongguan Yaxu (AiT) Technology Limited, personal only, and shall be noted in the revision of the document. This test report must not be used by the client to claim product endorsement.	
Reviewed by: Emiya In	Approved by: Simba Huang
Emiya In	Simba Huang
Dongguan Yaxu (AiT) Technology Limited No.22, Jiaohang 3rd Street, Jiaohang, Huanggang, Dongguan, Guangdong, China.	

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1 Cherry Li BLE test report Hamedata Technology Co Limited M1200 Power Station 2ADOW 2ADOWM1200 m1200

Page 1 of 36 Report No.: AITSZ24051610FW1 TEST REPORT Client Information:
Applicant: Hamedata Te ... ad, Pingshan District, Shenzhen, China Product
Information: Product Name: Power Station Model No: **M1200** Brand Name: Marstek
FCC ID: 2ADOW-**M1200** Applicable standards: FCC CFR Title 47 Part 15 Subpar...

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[pdf] Test Report

1 Cherry Li Test Report 2 4G WiFi Hamedata Technology Co Limited M1200 Power Station 2ADOW 2ADOWM1200 m1200

Page 1 of 44 Report No.: AITSZ24051610FW2 TEST REPORT Client Information: Applicant: Hamedata Te ... d, Pingshan District, Shenzhen, China Product Information: Product Name: Power Station Model No.: **M1200** Brand Name: Marstek FCC ID: 2ADOW-**M1200** Applicable standards: FCC CFR Title 47 Part 15 Subpar... lang:en score:18 filesize: 1.05 M page_count: 44 document date: 2024-06-24



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