

MARSTEK M2200

MARSTEK M2200 Portable Power Station User Manual

Model: M2200 | Brand: MARSTEK

1. INTRODUCTION AND OVERVIEW

The MARSTEK M2200 Portable Power Station is a versatile and robust power solution designed for various applications, including outdoor camping, home backup, and professional work. It features a high-capacity 2240Wh LiFePO4 (LFP) battery, capable of 6000 charge cycles, ensuring a long lifespan. With its fast charging capabilities and expandable design, the M2200 provides reliable power for a wide range of appliances.



Image: The MARSTEK M2200 Portable Power Station, showcasing its compact design and integrated display.

2. WHAT'S IN THE BOX

Please verify that all the following components are included in your package:

- MARSTEK M2200 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- User Manual
- Professional Service Card

3. PRODUCT FEATURES

3.1 Faster Charging

The M2200 supports ultra-fast AC charging, allowing it to reach 80% capacity in just 60 minutes and a full 100% in 70 minutes. This rapid charging capability is ideal for quick power replenishment before trips or during emergencies.

Faster Charging 0-80% in 60 mins

60mins MARSTEK M2200

2-3 hrs Other AC Charging



Image: The M2200 connected to an AC outlet, illustrating its fast charging speed compared to other devices.

3.2 Long-Lasting LFP Battery

Equipped with a self-developing LiFePO₄ (LFP) battery cell, the M2200 offers an impressive 6000 charge cycles while maintaining over 80% of its original capacity. This translates to a potential lifespan of 10 years with daily use, or up to 25 years with less frequent use, providing stable and reliable performance over time.

Long Lasting for 10 Years



Self-developing cell

6000+

6000+ cycles



LFP battery

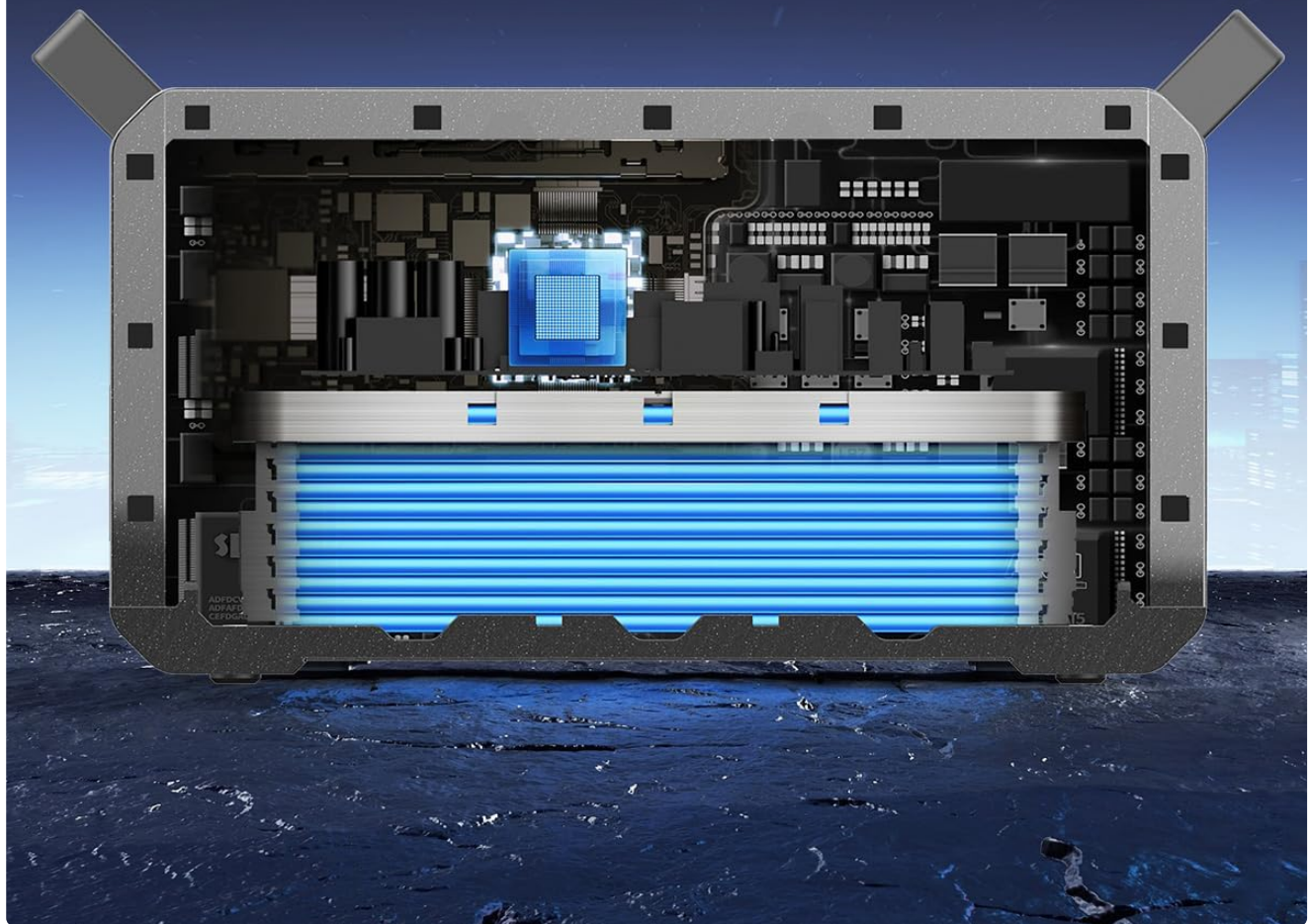


Image: An internal view of the M2200, highlighting the long-lasting LFP battery cells.

3.3 Expandable Capacity

The M2200 is designed for expandability, featuring two additional expansion ports. Its capacity can be expanded from 2240Wh up to a maximum of 6720Wh by connecting external battery packs (sold separately). This modular design allows for increased power storage to meet larger energy demands.

Flat Stack Design

M2200+ 1 x P2200=4480Wh

M2200+ 2 x P2200=6720Wh



Image: Multiple M2200 units stacked, demonstrating the expandable and flat-stack design.

3.4 Powerful Output and Multiple Ports

With a powerful inverter and 16 output ports, the M2200 can power up to 99% of common appliances. It delivers a maximum output of 2400W, making it suitable for high-power devices such as coffee makers, refrigerators, microwaves, and even electric picks.

Power Almost All Your Devices

2240Wh Capacity **2400W** Max Output



Image: The M2200 shown powering various household appliances, illustrating its versatility.

3.5 Smart App Control

The MARSTEK M2200 can be monitored and controlled remotely via a dedicated smartphone application. The app allows users to check charging status, control output ports, and manage settings conveniently through Bluetooth or Wi-Fi connectivity.

Smart App for Control



Monitor the charging status



Remotely Control charging



Connect via Bluetooth or Wi-Fi



Image: A smartphone displaying the MARSTEK app interface, showing battery status and control options.

3.6 Efficient Solar Charging

The M2200 supports up to 1000W of solar panel input, enabling it to be fully charged by solar power in approximately 2.3 hours. This feature provides an environmentally friendly and efficient charging option for off-grid use.

Fast Solar Charging in 2.3H

1.8H Charging 0-80%

2.5 hrs Other 0-80%

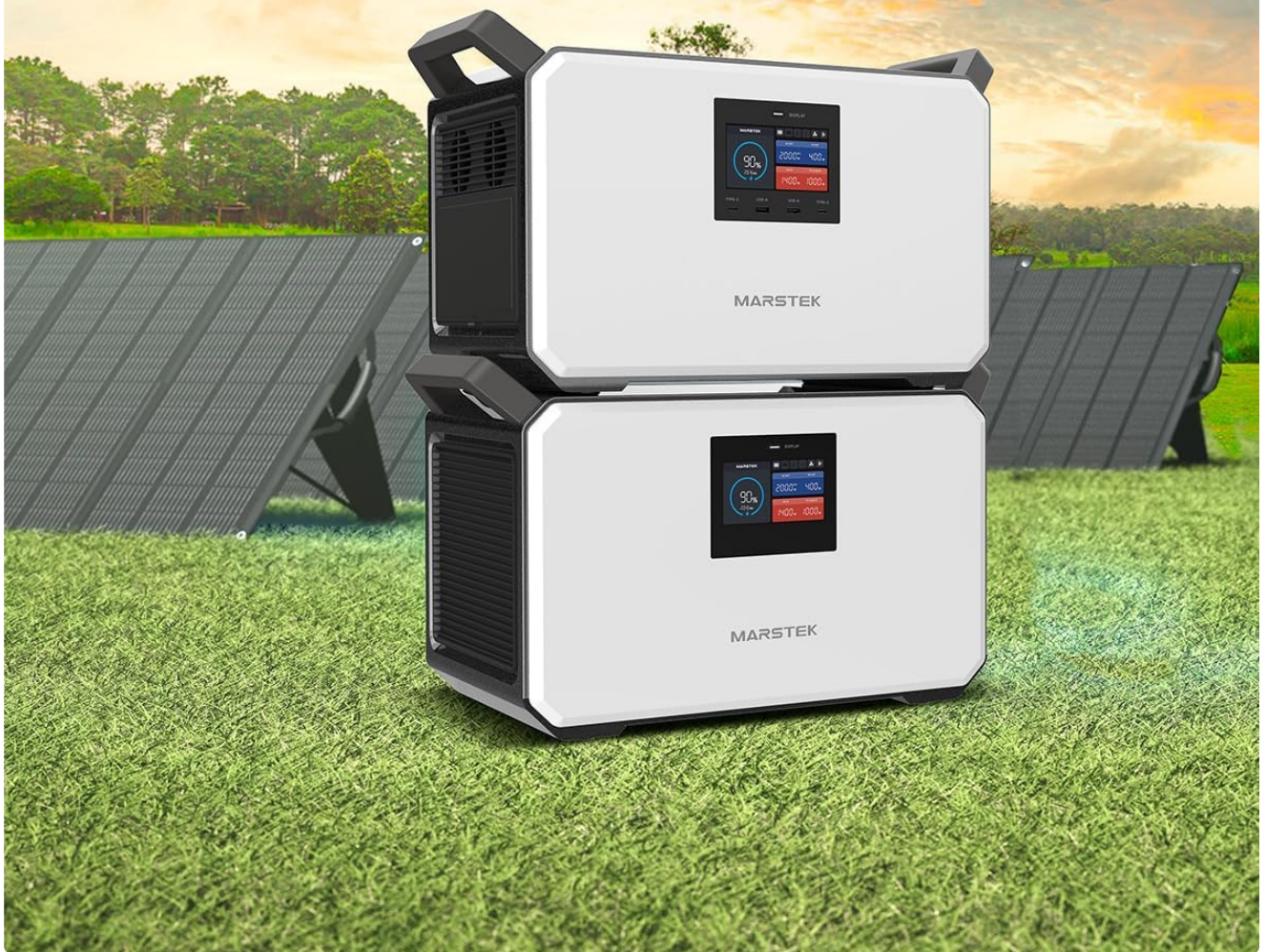


Image: Two M2200 units in a field with solar panels, demonstrating solar charging capabilities.

4. SETUP GUIDE

4.1 Unpacking and Inspection

1. Carefully remove the power station and all accessories from the packaging.

2. Inspect the unit for any signs of damage during transit. If damage is found, contact customer support immediately.
3. Ensure all components listed in Section 2 are present.

4.2 Initial Charging

1. Before first use, it is recommended to fully charge the M2200.
2. Connect the AC charging cable to the AC input port on the power station and then to a standard wall outlet.
3. The display will indicate the charging status. Charge until the battery indicator shows 100%.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

1. To power on the unit, press and hold the main power button for 3 seconds. The display will illuminate.
2. To power off, press and hold the main power button again for 3 seconds until the display turns off.

5.2 Using AC Output

1. Press the AC output button to activate the AC outlets. The AC indicator on the display will light up.
2. Plug your AC appliances into the available outlets. Ensure the total power consumption does not exceed 2400W.
3. Press the AC output button again to turn off the AC outlets when not in use.

5.3 Using DC and USB Output

1. Press the DC output button to activate the DC and USB ports. The corresponding indicators will light up.
2. Connect your DC-powered devices or USB devices to the respective ports.
3. Press the DC output button again to turn off these ports.

5.4 Understanding the Display

The integrated display provides real-time information about the power station's status:

- **Battery Level:** Shows the current battery percentage.
- **Input Power:** Displays the current power input (e.g., from AC, solar, or car charger).
- **Output Power:** Shows the total power being drawn by connected devices.
- **Remaining Runtime/Charge Time:** Estimates the remaining operating time or time to full charge based on current power usage/input.
- **Error Indicators:** Alerts for overload, over-temperature, or other system warnings.

6. CHARGING METHODS

6.1 AC Wall Charging

1. Connect the provided AC charging cable to the AC input port on the M2200.
2. Plug the other end into a standard 100-120V AC wall outlet.
3. The power station will begin fast charging automatically.

6.2 Solar Panel Charging

1. Connect compatible solar panels (up to 1000W input) to the solar input port on the M2200.
2. Ensure solar panels are placed in direct sunlight for optimal charging efficiency.
3. The display will show the incoming solar power.

6.3 Car Charging

1. Use the provided car charging cable.
2. Plug one end into the car's 12V cigarette lighter socket and the other end into the car charging input port on the M2200.
3. This method is suitable for charging while on the go.

7. MAINTENANCE

7.1 Storage Guidelines

1. Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
2. For long-term storage, charge the unit to approximately 50-80% every 3-6 months to preserve battery health.
3. Avoid storing in environments with high humidity or corrosive substances.

7.2 Cleaning

1. Use a soft, dry cloth to wipe the exterior of the power station.
2. Do not use abrasive cleaners or solvents.
3. Keep ventilation openings clear of dust and debris.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on	Battery is completely depleted; Power button not held long enough.	Charge the unit using the AC adapter; Press and hold the power button for 3 seconds.
AC output not working	AC output not activated; Overload protection triggered; Device power consumption too high.	Press the AC output button; Reduce connected load; Restart the unit.

Problem	Possible Cause	Solution
Slow charging via solar	Insufficient sunlight; Panels not optimally angled; Panels not compatible.	Ensure direct sunlight and proper angle; Verify panel specifications and connections.
Display not working	Unit is off; Software glitch.	Power on the unit; Try restarting the unit. If issue persists, contact support.

9. SPECIFICATIONS

Specification	Detail
Brand	MARSTEK
Model Name	M2200 Portable Power Station
Power Source	Solar Powered, AC, Car
Battery Type	LiFePO4 (LFP)
Battery Capacity	2240Wh (Expandable to 6720Wh)
Cycle Life	6000 cycles to 80%+ capacity
Output Wattage (Max)	2400W
AC Input Charging Time (0-80%)	60 minutes
Solar Input (Max)	1000W
Item Weight	52.91 Pounds
Product Dimensions	16.1"L x 11.77"W x 12.09"H
Material	ABS + PC + Metal
Number of Ports	16

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The MARSTEK M2200 Portable Power Station comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for

warranty claims.

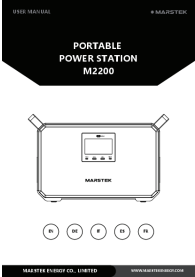

10.2 Customer Support


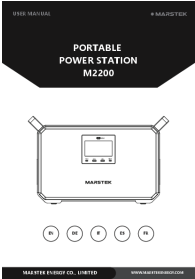


For technical assistance, warranty claims, or any questions regarding your MARSTEK M2200, please contact our customer support team. Refer to the professional service card included in your package for specific contact details or visit the official MARSTEK website.

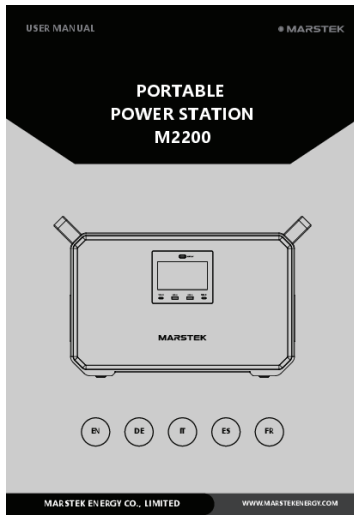


Image: MARSTEK customer service representatives, indicating available support.

Related Documents - M2200

	<p>MARSTEK M2200 Portable Power Station User Manual</p> <p>User manual for the MARSTEK M2200 Portable Power Station, detailing its features, specifications, operation, charging methods, troubleshooting, app integration, safety guidelines, and warranty information.</p>
	<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>

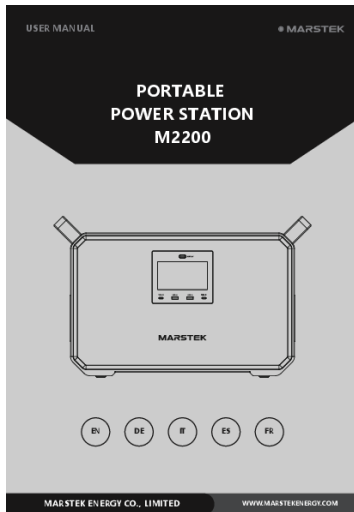
	<p>Marstek B2500 Micro ESS Powerstation User Manual</p> <p>Comprehensive user manual for the Marstek B2500 Micro ESS Powerstation, covering technical specifications, product description, usage instructions, app guidance, FAQs, warranty information, and safety precautions.</p>
	<p>MARSTEK M2200 Portable Power Station User Manual</p> <p>Comprehensive user manual for the MARSTEK M2200 Portable Power Station, detailing its features, specifications, charging methods, usage instructions, troubleshooting, safety guidelines, and warranty information.</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 B2500-D MICRO ESS Instruction Manual Portable Power Station Guide</p> <p>Comprehensive instruction manual for the MARSTEK B2500-D MICRO ESS portable power station. Learn about setup, operation, specifications, app control, safety, and warranty.</p>



[MARSTEK M2200 Portable Power Station User Manual](#)

User manual for the MARSTEK M2200 Portable Power Station, detailing its features, specifications, operation, charging methods, troubleshooting, app integration, safety guidelines, and warranty information.

lang:en score:43 filesize: 1.82 M page_count: 13 document date: 2025-02-20



[MARSTEK M2200 Portable Power Station User Manual](#)

Comprehensive user manual for the MARSTEK M2200 Portable Power Station, detailing its features, specifications, charging methods, usage instructions, troubleshooting, safety guidelines, and warranty information.

lang:en score:28 filesize: 440.91 K page_count: 13 document date: 2025-08-02

Dongguan Yaxu(AIT) Technology Limited

Report No.: AITDG-241115003W1
FCC ID: 2ADOW-M2200

Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: Power Station
Trade Mark: MARSTEK
Test Model: M2200

Environmental Conditions

Temperature:	24.77°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emilia Lin
Supervised by:	Shirley Huang

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WCB Appendix B RF Test Data for BLE Hamedata Technology Co Limited M2200 Power Station 2ADOW 2ADOWM2200 m2200

Dongguan Yaxu AiT Technology Limited Appendix B Report No.: AiTDG-241115003W1 FCC ID: 2ADOW-**M2200** 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: **M2200** Envir...

lang:en score:26 filesize: 4.09 M page_count: 35 document date: 2024-12-18

Dongguan Yaxu(AIT) Technology Limited

Report No.: AITDG-241115003W2
FCC ID: 2ADOW-M2200

Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Power Station
Trade Mark: MARSTEK
Test Model: M2200

Environmental Conditions

Temperature:	24.77°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emilia Lin
Supervised by:	Shirley Huang

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WCB Appendix C RF Test Data for 2 4GWIFI Hamedata Technology Co Limited M2200 Power Station 2ADOW 2ADOWM2200 m2200

Dongguan Yaxu AiT Technology Limited Appendix C Report No.: AiTDG-241115003W2 FCC ID: 2ADOW-**M2200** 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: **M2200** Envir...

lang:en score:25 filesize: 5.47 M page_count: 46 document date: 2024-12-18

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Report No.: AITDG-241115003W1

TEST REPORT

Client Information:

Applicant: Hamedata Technology Co Limited
Applicant add: 1-3F & 6-6F, BLDGMA,Changling Industrial Park, No.2 Gushue 9th Road, Pingshan District, Shenzhen, China
Manufacturer: Hamedata Technology Co Limited
Manufacturer add: 1-3F & 6-6F, BLDGMA,Changling Industrial Park, No.2 Gushue 9th Road, Pingshan District, Shenzhen, China

Product Information:

Product Name: Power Station
Model No: M2200
Brand Name: MARSTEK
FCC ID: 2ADOW-M2200

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Prepared By:

Dongguan Yaxu (AIT) Technology Limited
No.22, Jinpingting 3rd Street, Jilangang, Huanggang,Dongguan,
Guangdong, China
Tel.: +86-768-8202 0499 Fax: +86-768-8202 0495
Date of Report: Nov. 15, 2024 Date of Test: Nov. 15, 2024-Dec. 03, 2024
Date of Issue: Dec. 04, 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 compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Reviewed by: Emilia Lin
Emilia Lin

Approved by: Shirley Huang
Shirley Huang

Dongguan Yaxu (AIT) Technology Limited
No.22, Jinpingting 3rd Street, Jilangang,
Huanggang, Dongguan, Guangdong, China.

[pdf] Test Report

1 Cherry Li FCC BLE test report Hamedata Technology Co Limited M2200 Power Station 2ADOW 2ADOWM2200 m2200

Page 1 of 36 Report No.: AiTDG-241115003W1 TEST REPORT Client Information: Applicant: Hamedata T ... ad, Pingshan District, Shenzhen, China Product Information: Product Name: Power Station Model No: **M2200** Brand Name: MARSTEK FCC ID: 2ADOW-**M2200** Applicable standards: FCC CFR Title 47 Part 15 Subpar...

lang:en score:21 filesize: 1000.51 K page_count: 36 document date: 2024-12-18

TEST REPORT

Client Information:

Applicant:	Hamedata Technology Co., Limited
Applicant add.:	1-3F & 6-8F, BLDG#A, Changfeng Industrial Park, No.2 Guixia 5th Road Pingshan District, Shenzhen, China
Manufacturer:	Hamedata Technology Co., Limited
Manufacturer add.:	1-3F & 6-8F, BLDG#A, Changfeng Industrial Park, No.2 Guixia 5th Road Pingshan District, Shenzhen, China

Product Information:

Product Name: Power Station
Model No.: M2200
Brand Name: MARSTEK
FCC ID: ZAD0W-M2200

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Prepared By:

Dongguan Yau (AT) Technology Limited

No.22, Jingxin 3rd Street, Jitang, Huanjiang Dongguan,
Guangdong China

Tel.: +86-769-8202 0499 Fax: +86-769-8202 0495

Date of Receipt: No. 05, 2024 Date of Test: No. 2024-Dec-06, 03, 2024

Date of Issue: Dec. 04, 2024 Test Result: Pass

The results described above have been tested by Dongguan Yau (AT) Technology Limited and the Test show that each of the equipment under test (EUT) is in compliance with the FCCISED requirements. And it is applicable only to the equipment identified in the report.

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Reviewed by: Emiya Lin
Emiya Lin

Approved by: Gimba Huang
(Gimba Huang)

Dongguan Yaxu (A/T) Technology Limited
No.22, Jinjiaoling 3rd Street, Jigang,
Huagiang, Dongguan, Guangdong, China



[\[pdf\]](#) Test Report

1 Cherry Li Test Report 2 4G WiFi Hamedata Technology Co Limited M2200 Power Station 2ADOW
2ADOWM2200 m2200

Page 1 of 40 Report No.: AiTDG-241115003W2 TEST REPORT Client Information:
Applicant: Hamedata T ... d, Pingshan District, Shenzhen, China Product Information:
Product Name: Power Station Model No.: **M2200** Brand Name: MARSTEK FCC ID:
2ADOW-**M2200** Applicable standards: FCC CFR Title 47 Part 15 Subpar...
lang:en score:20 filesize: 1.03 M page_count: 40 document date: 2024-12-18

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M2200 cdr 36919 Datenblatt Marstek Mercury M2200Marstek M2200 Off Grid Powerstation
PluginEnergyDatenblatt M2200cdn shopify s files 1 0526 3042 1681 v 1751908252 M2200marstek m2200
ONSA PlusMarstek PluginEnergyMARSTEK Power Anywhere Anytime MARSTEK Portable 2400W AC
Output 2000W Input 1200W PV 2240Wh LFP Battery Cycle Life ≥6000Datenblatt M2200m2200 power
station eucdn 1751908252onsaplus eu user related ||| |||
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lang:en score:13 filesize: 1.16 M page_count: 2 document date: 2025-02-27