

ELECAENTA Mars EM200

ELECAENTA Portable Power Station 200W User Manual

Model: Mars EM200

1. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the ELECAENTA Mars EM200 Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not exceed the rated output power of 200W. Overloading the device may cause damage or fire.
- Keep the power station away from water, high temperatures, and direct sunlight.
- Ensure proper ventilation during use to prevent overheating.
- Do not disassemble, repair, or modify the unit. Contact customer service for assistance.
- Keep out of reach of children and pets.
- The built-in Battery Management System (BMS) provides protection against over-current, over-voltage, over-temperature, short-circuit, over-discharge, and reverse charge.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x ELECAENTA EM200 Power Station
- 1x AC Charging Cable
- 1x DC5521 to Cigarette Socket Cable
- 1x Car Charger Cable
- 1x User Manual



Image: ELECAENTA EM200 Power Station and its accessories.

3. PRODUCT OVERVIEW

The ELECAENTA Mars EM200 is designed for portability and versatility, featuring a compact form factor and multiple output options.

Key Features:

- **Foldable Handle:** Integrated into the top for easy transport.
- **LCD Display:** Shows battery capacity and active output ports.
- **AC Outlets:** Two 110V 200W (peak 400W) pure sine wave AC outlets.
- **DC Outputs:** Three DC 5.5*2.1 outputs (12V/5A).

- **USB Ports:** One PD 60W USB-C (input/output) and three QC 3.0 USB outputs (max 24W).
- **LED Lights:** Two integrated LED lights for illumination with multiple modes.

ONLY 4.4 lbs FOR PORTABILITY

Small size, light weight, easy to carry



Image: Front panel with all input/output ports and LCD display.

ADVANCED LiFePO4 BATTERY

6X Longer Battery Lifespan



Up to 10-Years Lifespan

3000+ Cycles

Image: The power station featuring its convenient foldable handle.

4. SETUP

Before first use, fully charge your power station. The unit can be charged via AC adapter, car charger, or solar panel.

Charging Methods:

- **AC Adapter:** Connect the included AC charging cable to the power station and a wall outlet.
- **Car Charger:** Use the included car charger cable to charge from your vehicle's 12V accessory port.
- **Solar Panel:** Connect a compatible solar panel (12V-24V, 5A, 100W max) to the DC input port. The built-in MPPT controller optimizes solar charging.

Note: Voltage for solar input must be between 12V-24V.

PD 60W USB C FAST CHARGING

Support charging and discharging



Image: Charging the power station via PD 60W USB-C.

Video: Official product video demonstrating various charging methods and features.

5. OPERATING INSTRUCTIONS

The ELECAENTA Mars EM200 is designed to power a wide range of devices, making it suitable for various outdoor and emergency scenarios.

Powering Devices:

- **Turn On/Off:** Press the main power button to activate the unit and view the LCD display.
- **AC Output:** Press the AC button to enable the 110V pure sine wave outlets for sensitive electronics.
- **DC Output:** Press the DC button to enable the 12V DC ports for compatible devices.
- **USB Output:** Press the USB button to activate the USB-C PD and QC 3.0 ports for fast charging smartphones, tablets, and laptops.
- **LED Lights:** Press the dedicated LED light button to cycle through different lighting modes (e.g., steady, SOS).

The 200Wh capacity can provide multiple charges for various devices, such as approximately 3 charges for a 50Wh laptop, 16 charges for a 3208mAh smartphone, or 5 charges for a 30Wh drone.

COMPATIBLE WITH MOST DEVICES

200Wh Capacity, Rated 200W (Peak 400W)



3 Charges
Laptop (50Wh)



16 Charges
Smartphone (3208mAh)



6 Charges
Pad (28.6Wh)



11Charges
Camera (15Wh)



5 Charges
Drone (30Wh)



8+ Hours
LED Light (20W)



16+ Hours
Router (10W)



1+ Hour
55' TV (130W)



16+ Hours
Radio (10W)



16+ Hours
Small Fan (10W)



4+ Hours
Car Refrigerator (40W)



4+ Hours
Electric Blanket (40W)



Image: Device compatibility and estimated charge cycles.

9 OUTPUT PORTS FOR YOUR CHOICE

You can use them at the same time

1x PD 60W USB C
Support input / output

2x 110V pure sine wave AC outlets
(Rated 200W, peak 400W)

3x QC 3.0 outputs (Max 24W)



3x DC5521 outputs
12V/5A (Max 6A)

1x DC5521 input
12V-24V/5A (Max 100W)

Image: The compact and lightweight design makes it easy to carry for outdoor activities.

6. MAINTENANCE AND STORAGE

To ensure the longevity and optimal performance of your ELECAENTA Mars EM200, follow these maintenance and storage guidelines:

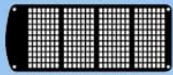
- **Battery Lifespan:** The LiFePO4 battery is designed for up to 3000 cycles in daily use, providing up to 10 years of

lifespan.

- **Operating Temperature:** Use the power station within the recommended temperature range of 0°C to 40°C (32°F to 104°F) for discharging and 0°C to 45°C (32°F to 113°F) for charging.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and corrosive materials. For long-term storage, charge the unit to 50-80% every 3-6 months to maintain battery health.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the power station. Do not use abrasive cleaners or immerse the unit in water.

UP TO 100W FAST CHARGING

DC input supports 12V-24V, 5A (Max 100W)



ELECAENTA 120W Solar Panel:
About **2 Hours**



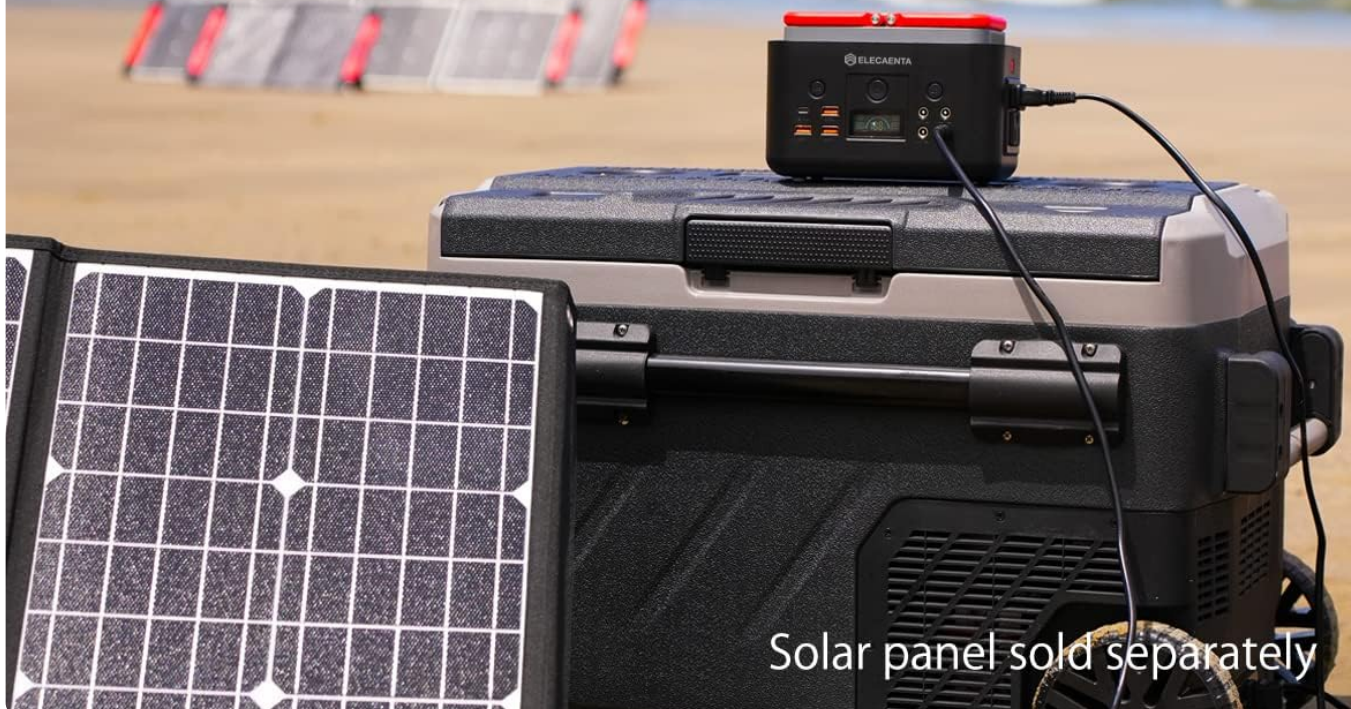
USB C PD 60W:
About **3.5 Hours**



AC Adapter (72W):
About **3 Hours**



Car Charger:
About **3.5 Hours** (12V)
About **2 Hours** (24V)



Solar panel sold separately

7. TROUBLESHOOTING

If you encounter issues with your ELECAENTA Mars EM200, refer to the common questions and answers below. The built-in BMS (Battery Management System) and MPPT (Maximum Power Point Tracking) controller safeguard the device and connected electronics.

Frequently Asked Questions:

- **Q1: Which devices can this ELECAENTA EM200 portable power station support?**

A: The ELECAENTA EM200 can support devices rating less than 200W, such as phones, laptops, cameras, drones, LED lights, and small fans. Please confirm the open circuit current/voltage of your devices.

- **Q2: Does ELECAENTA EM200 power station support pass-through charging? Can I use other outlets while charging?**

A: Yes, this power station supports pass-through charging. You can use all other outputs while charging, except the PD 60W port and the right-side QC3.0 port.

- **Q3: What is the maximum input from solar?**

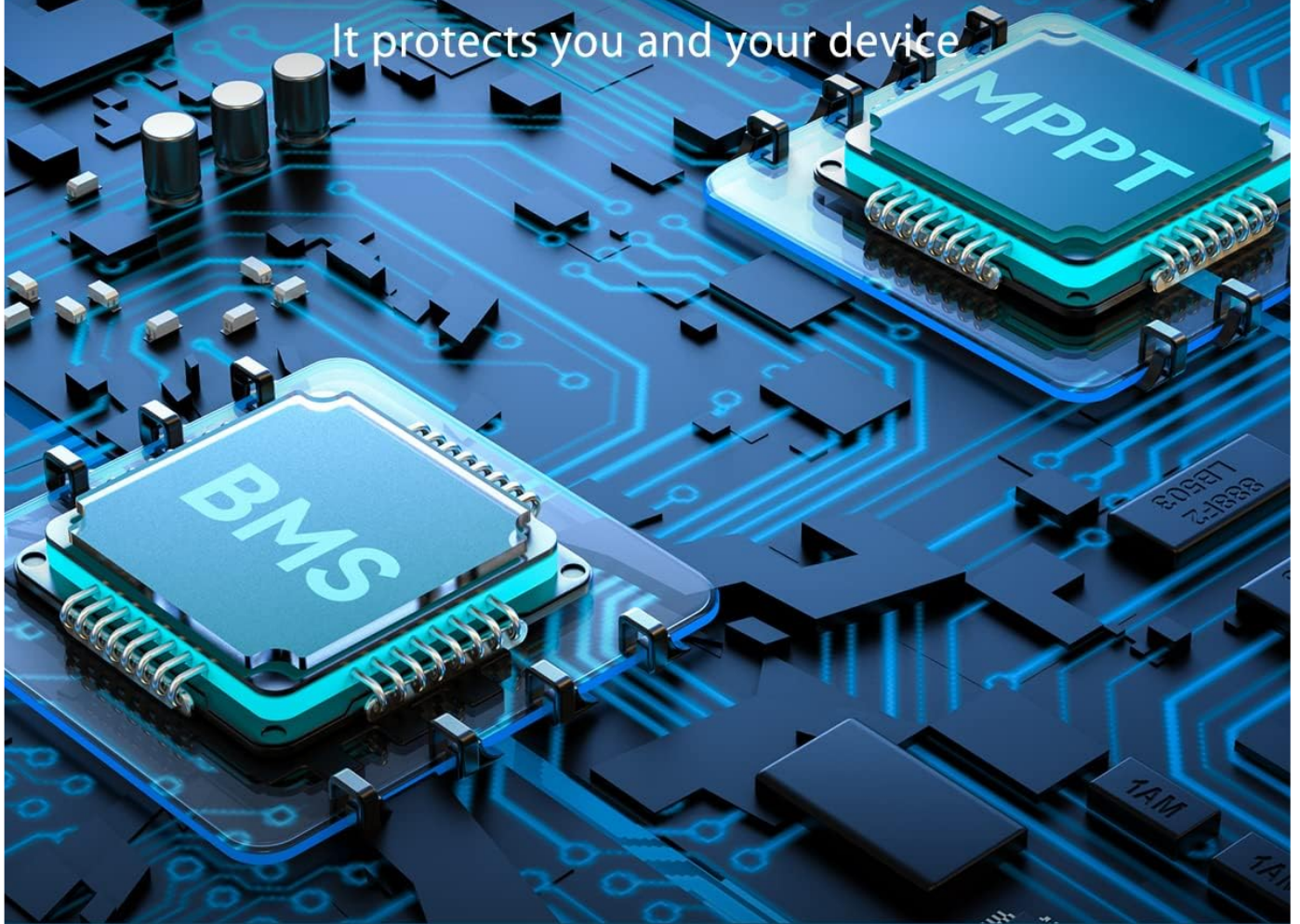
A: The ELECAENTA EM200 has a built-in MPPT controller. The voltage is 12V-24V/5A, and the maximum input power can reach 100W (depends on sunlight).

- **Q4: How to know the working times for my device? Why does the duration of some devices deviate from the actual usage data?**

A: Working time = $200\text{Wh} \times 0.85$ / operating power of your device. The duration of our equipment is based on laboratory data, and the duration of specific equipment usage may vary due to factors like device efficiency and environmental conditions.

BUILT-IN BMS AND MPPT

It protects you and your device



shortcircuit protection



overvoltage protection



overload protection



overcharge protection



overdischarge protection



temperature protection



NTC protection



reverse charge protection

Image: Built-in BMS and MPPT for comprehensive protection.

8. SPECIFICATIONS

Detailed technical specifications for the ELECAENTA Mars EM200 Portable Power Station:

Feature	Specification
Model Number	Mars EM200
Battery Capacity	200Wh (62500mAh) LiFePO4
AC Output	2x 110V Pure Sine Wave, 200W (Peak 400W)
DC Output	3x DC 5.5*2.1 (12V/5A)
USB-C Output/Input	1x PD 60W
USB-A Output	3x QC 3.0 (Max 24W)
DC Input (Solar/Car)	12V-24V/5A (100W Max)
Dimensions	7 x 4 x 5 inches
Item Weight	4.4 pounds
Battery Cell Type	Lithium-Phosphate

9. WARRANTY AND SUPPORT

ELECAENTA provides a comprehensive warranty and dedicated customer support for your Mars EM200 Portable Power Station.

- **Warranty:** Manufacturer warranty for 24 months from the date of purchase.
- **Customer Service:** For any questions, technical support, or warranty claims, please refer to the contact information provided in your user manual or visit the official ELECAENTA website.

For additional information and support, you can refer to the official User Manual PDF [Download User Manual \(PDF\)](#)

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