FOSSiBOT F2400

FOSSiBOT F2400 Powerstation User Manual

Portable Solar Generator

1. Introduction

The FOSSiBOT F2400 is a high-capacity portable power station designed to provide reliable power for various applications, from outdoor adventures to emergency home backup. Featuring a 2048Wh LiFePO4 battery and a 2400W AC output (4800W peak), it offers versatile charging options and multiple output ports to keep your devices powered.



Image: The FOSSiBOT F2400 Powerstation, showcasing its display and connectivity options, alongside a smartphone displaying its control app.

2. Package Contents

Before using your FOSSiBOT F2400 Powerstation, please ensure all items listed below are included in your package:

- FOSSiBOT F2400 Powerstation
- AC Charging Cable
- Car Charging Cable
- Solar Charging Cable
- User Manual



Image: A visual representation of the standard package contents, including the F2400 Powerstation and its accompanying cables and manual.

3. Product Overview & Components

Familiarize yourself with the various parts and functions of your FOSSiBOT F2400 Powerstation:

Names of Each Part



Image: Detailed diagram illustrating the names and locations of each component on the FOSSiBOT F2400 Powerstation.

- **LCD Screen:** Displays battery level, input/output wattage, and status indicators.
- **Input Power Adjustment Knob:** Controls the AC charging speed.
- **Main Power Switch:** Turns the unit on/off.
- **USB Ports ON/OFF:** Activates/deactivates USB-A and USB-C outputs.
- **LED Light ON/OFF:** Controls the built-in LED light.
- **Cigarette Lighter (12V/10A):** DC output for car accessories.
- **XT-60 (12V/25A) & DC5521 (12V/3A):** Additional DC output ports.
- **Overload Protection Button:** Resets the system in case of overload.
- **AC Charge Port:** For charging the power station via AC wall outlet.
- **XT90 Port (for SP/Car Charge):** Input port for solar panels or car charging.
- **Cooling Fan:** Dissipates heat during operation.
- **AC Port Button (50/60Hz switch button):** Controls the AC output and frequency.
- **AC Output Ports (x3):** Standard AC outlets for appliances.

4. Setup & Charging

Initial Setup

Upon receiving your FOSSiBOT F2400, it is recommended to fully charge the unit before first use. This ensures optimal battery calibration and performance.

Charging Methods

The F2400 supports multiple charging methods:



Image: Visual guide to the various charging methods available for the FOSSiBOT F2400, including AC, solar, and car charging.

1. **AC Wall Outlet Charging:** Connect the included AC charging cable to the AC Charge Port on the power station and plug it into a standard wall outlet. The F2400 can charge from 0% to 80% in approximately 1 hour, and fully in 1.5 hours when combined with solar input. You can adjust the charging power (300W - 1100W) to protect the battery and extend its lifespan.
2. **Solar Charging:** Connect compatible solar panels (up to 500W max) to the XT90 Port using the provided solar charging cable. Position the solar panels in direct sunlight for efficient charging.



Image: The FOSSiBOT F2400 Powerstation being charged by solar panels in an outdoor setting, demonstrating its portability and renewable energy capabilities.

3. **Car Charging:** Use the included car charging cable to connect the XT90 Port to your vehicle's 12V cigarette lighter socket.

5. Operating the Power Station

Powering Your Devices

The F2400 offers 13 versatile connections to power almost any device:

- 3x 2400W AC outputs
- 2x USB-A ports
- 4x USB-C ports (including 100W Power Delivery)
- 1x Cigarette lighter socket

- 2x DC5521 ports
- 1x XT-60 port

Simply connect your devices to the appropriate output port and ensure the corresponding output section (AC, DC, USB) is activated via its button on the control panel.

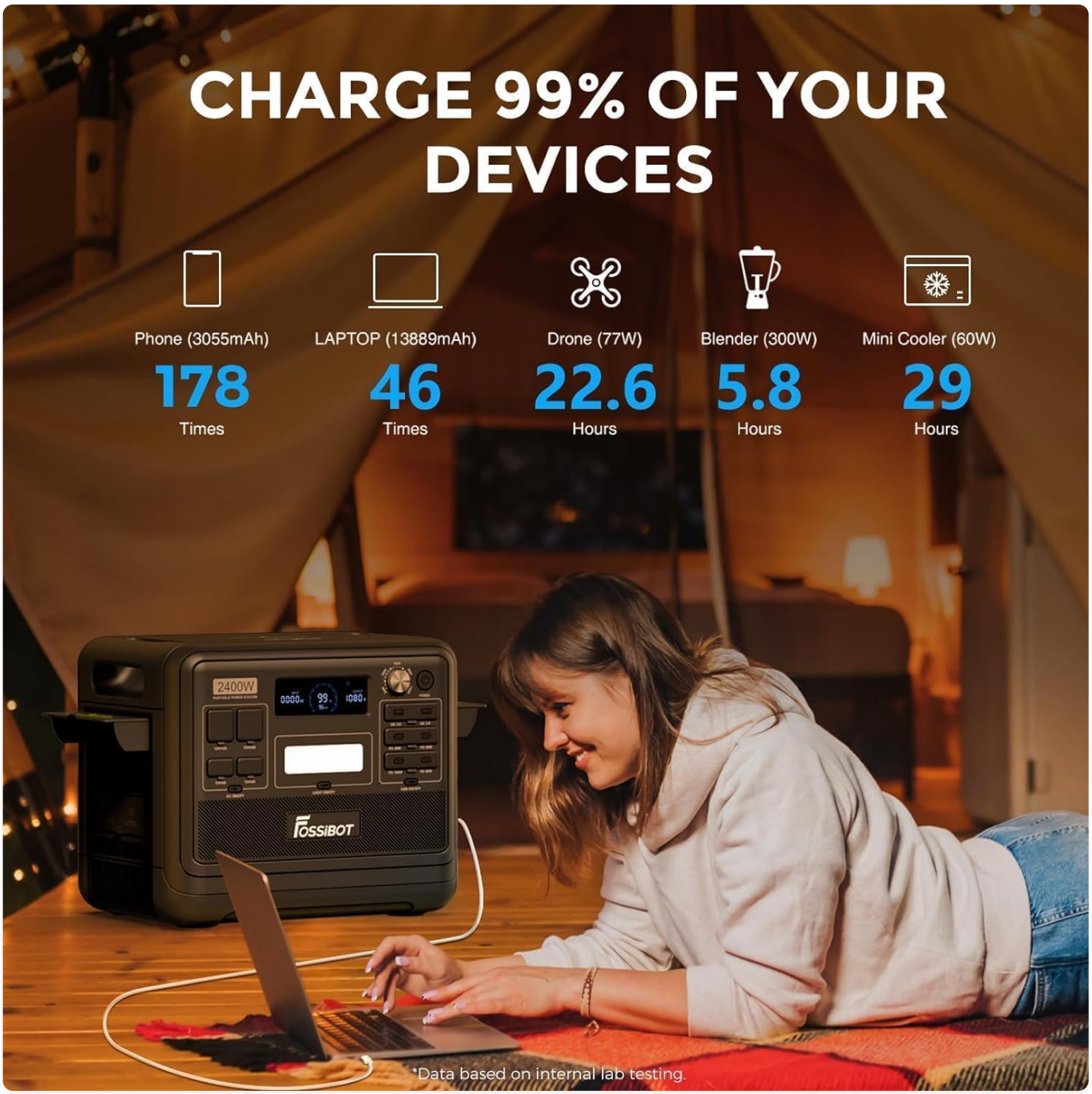


Image: An infographic demonstrating the FOSSiBOT F2400's capacity to charge various devices, such as phones, laptops, drones, blenders, and mini-coolers, multiple times or for extended durations.

App Control

Manage and control your F2400 power station conveniently via a smartphone app. Monitor power consumption, switch AC/DC/USB outputs on and off, and check battery status from anywhere.

Uninterruptible Power Supply (UPS) Function

The F2400 is equipped with a UPS function, ensuring continuous power supply. If the mains power supply stops, the F2400 will switch to its internal battery for power supply within 8 milliseconds, providing seamless operation for connected

devices like computers.



Image: A diagram explaining the Uninterruptible Power Supply (UPS) capability of the FOSSiBOT F2400, showing its rapid switchover time of under 8ms during a power outage.

6. Maintenance & Battery Care

The FOSSiBOT F2400 utilizes a safe LiFePO4 battery, known for its long lifespan and reliability. To ensure maximum longevity and performance:

- **Cycle Life:** The LiFePO4 battery offers over 4000 charge cycles, which translates to a lifespan of up to 15 years with typical use.

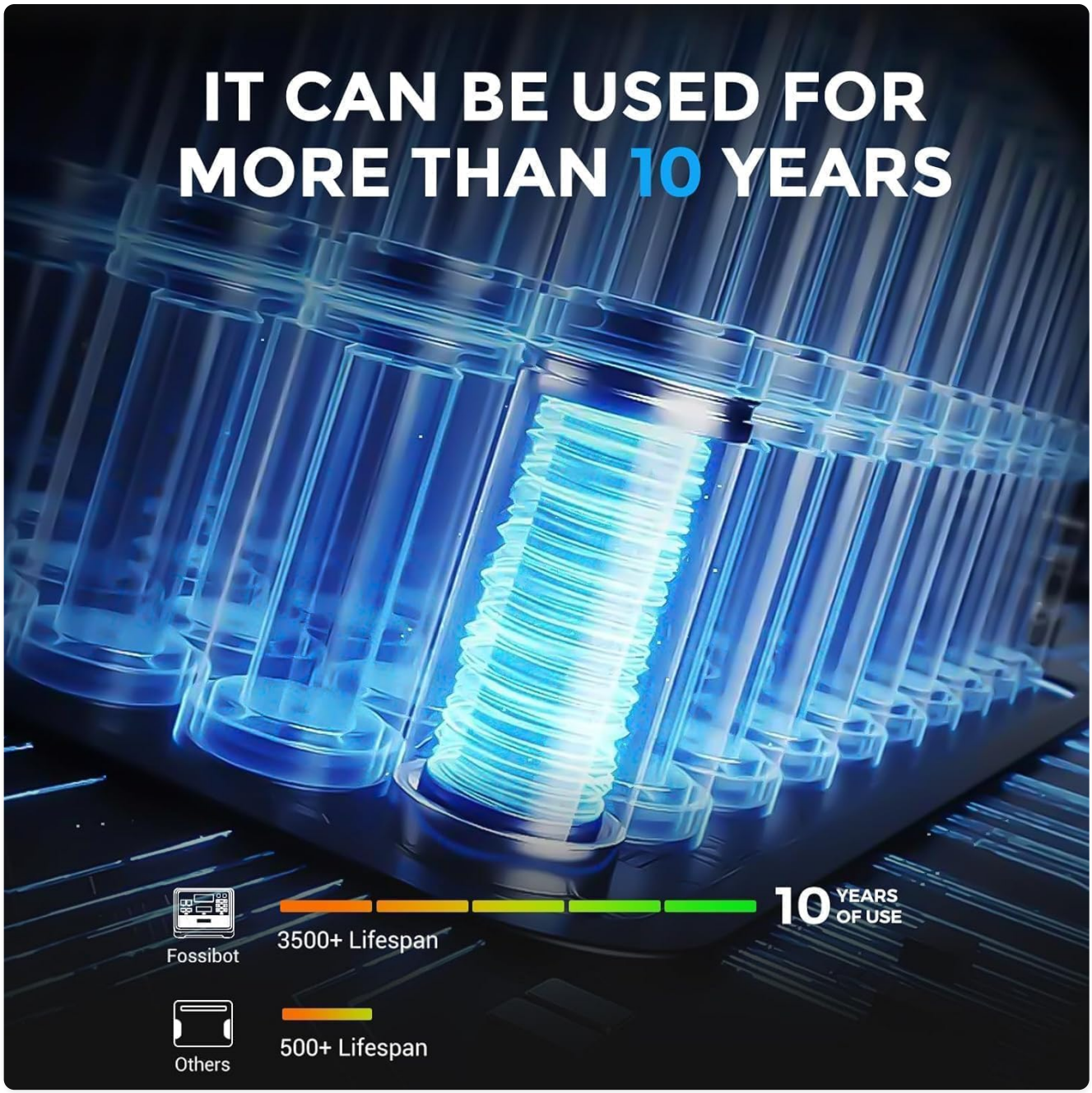


Image: A visual representation highlighting the extended lifespan of the FOSSiBOT's LiFePO4 battery, indicating it can be used for over 10 years.

- **Charging Power Selection:** Utilize the adjustable charging power feature (300W - 1100W) to protect the battery and extend its overall service life. Lower charging rates can be beneficial for long-term battery health.
- **Storage:** If storing the power station for an extended period, ensure it is charged to approximately 50-80% and recharge it every 3-6 months to prevent deep discharge. Store in a cool, dry place away from direct sunlight.
- **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.

7. Troubleshooting

If you encounter issues with your FOSSiBOT F2400 Powerstation, please consider the following common troubleshooting steps:

- **No Power Output:** Ensure the main power switch is ON and the specific output (AC/DC/USB) is activated. Check if the overload protection button has tripped.

- **Not Charging:** Verify that the charging cable is securely connected to both the power station and the power source. Check the power source itself (wall outlet, solar panel, car charger) is functioning correctly.
- **Overload Warning:** If an overload warning appears on the LCD screen, disconnect some devices to reduce the load. Press the overload protection button to reset if necessary.
- **App Connectivity Issues:** Ensure Bluetooth is enabled on your smartphone and the power station is within range. Restart both the app and the power station if connection problems persist.

For persistent issues, please refer to the detailed troubleshooting section in the full user manual or contact customer support.

8. Technical Specifications

Key specifications for the FOSSiBOT F2400 Powerstation:



Image: The FOSSiBOT F2400 Powerstation with its dimensions clearly marked: 39cm length, 27cm width, and 32cm height.

Feature	Specification
Model Number	F2400
Battery Type	LiFePO4
Capacity	2048 Wh
AC Output Power	2400 W (Rated), 4800 W (Peak)

Feature	Specification
Input Voltage	230 Volt
Max Solar Input	500 W
Charging Time (0-80%)	Approx. 1 hour
Full Charging Time (AC + Solar)	Approx. 1.5 hours
Dimensions (L x W x H)	39 x 29 x 32 cm
Weight	22 kg
Certifications	CE
Special Features	Portable, UPS Function

9. Warranty & Support

FOSSiBOT stands behind the quality of its products. The F2400 Powerstation comes with a comprehensive warranty and dedicated customer support:

- **Warranty:** We offer a 2-year standard warranty, which can be extended by an additional 3 years, totaling a 5-year warranty period.
- **Technical Support:** Lifetime technical support is provided for your F2400 Powerstation. Our customer service team is always ready to assist you with any inquiries or issues.

For warranty claims or technical assistance, please contact FOSSiBOT customer service through the contact information provided on our official website or your purchase platform.

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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

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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