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FOSSIBOT F2400

FOSSiBOT F2400 Portable Power Station User Manual

Model: F2400 | Brand: FOSSIBOT

Introduction

The FOSSiBOT F2400 Portable Power Station is a versatile and high-capacity energy solution designed for various applications, including emergency power supply, home backup, and outdoor adventures. Equipped with a durable LiFePO4 battery, it provides reliable power for a wide range of electronic devices and appliances.

Safety Instructions

Please read and understand all safety instructions before operating the FOSSiBOT F2400. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, heat sources, and direct sunlight.
- Do not expose the unit to water or other liquids.
- Ensure proper ventilation during use and charging.
- Keep out of reach of children and pets.
- Use only original or certified charging cables and accessories.
- In case of abnormal operation, immediately disconnect the power and contact customer support.

Product Overview

The FOSSiBOT F2400 features a robust design with multiple input and output ports to meet diverse power needs. Below is a diagram illustrating the main components and their functions.

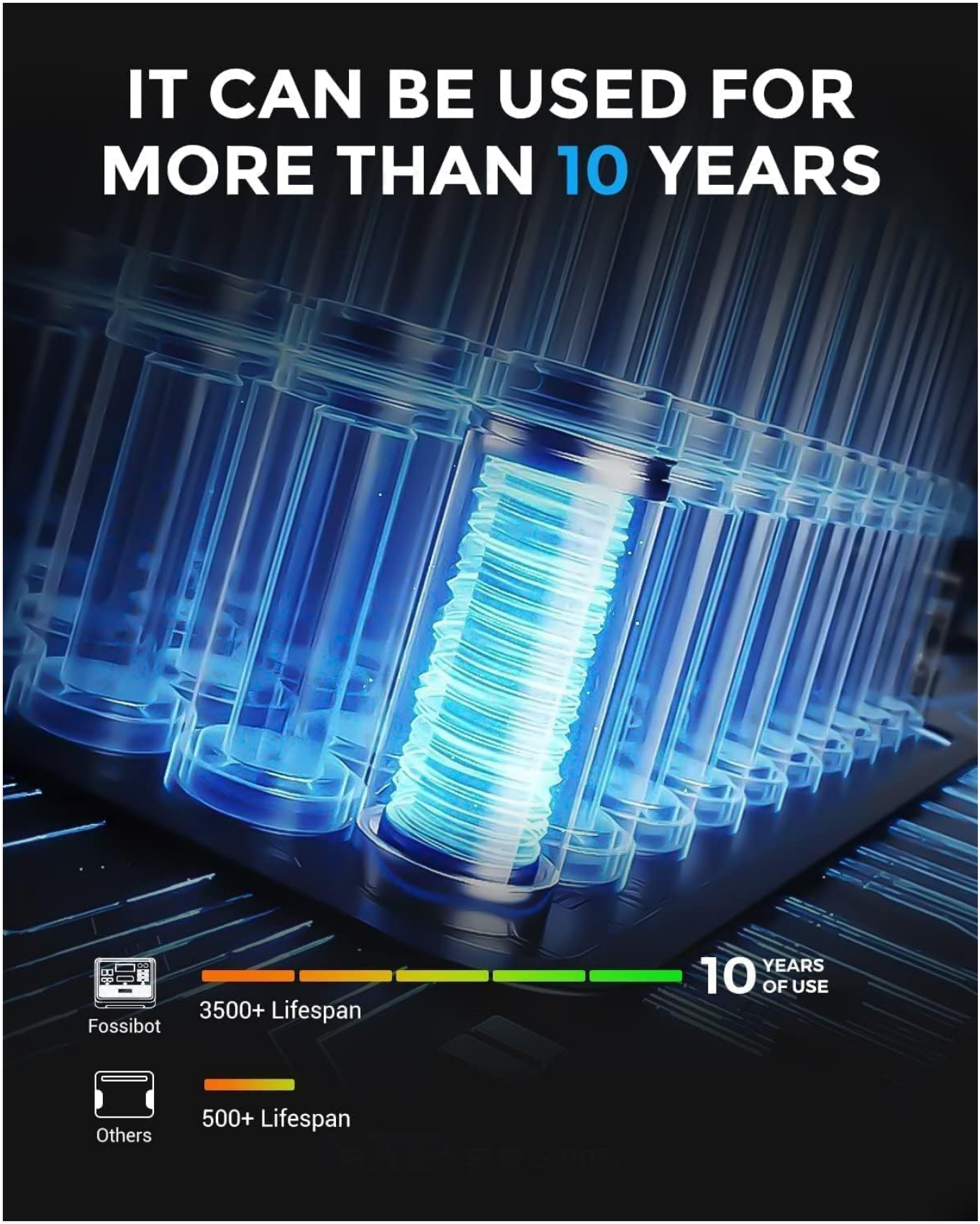


Figure 1: Names of Each Part of the FOSSiBOT F2400. This diagram labels the LCD screen, cables storage space, input power adjustment knob, main power switch, USB ports, LED light ON/OFF, cigarette lighter port, XT-60 port, DC5521 ports, overload protection button, AC charge port, XT90 port, cooling fan, AC port button, and AC output ports.

Key Features:

- **2048Wh LiFePO4 Battery:** Provides long-lasting and safe power.
- **2400W AC Output (4800W Peak):** Capable of powering high-wattage appliances.
- **Fast Charging:** Fully charges in 1.5 hours via combined AC and solar input.
- **16 Output Ports:** Versatile connectivity for various devices.

- **Intelligent Input Current Adjustment:** Protects the unit from unstable voltage.
- **Uninterruptible Power Supply (UPS) Function:** Provides seamless power during outages.
- **APP Control:** Remote monitoring and control via smartphone.
- **Built-in LED Lighting:** Features All Bright, SOS, and Strobe modes for emergencies.



Figure 2: FOSSiBOT F2400 Portable Power Station. This image displays the main unit with its various ports and digital display.

Setup

Before first use, ensure the FOSSiBOT F2400 is fully charged. Unpack all components and inspect for any damage.

1. **Unpacking:** Remove the power station and all accessories from the packaging.
2. **Initial Charge:** Connect the AC charging cable to a wall outlet and the F2400's AC Charge Port. Allow the unit to fully charge before first use. The LCD screen will indicate charging status.
3. **Familiarization:** Review the "Product Overview" section to understand the layout of ports and controls.

Charging the F2400

The FOSSiBOT F2400 supports multiple charging methods for convenience.

1. AC Charging

Connect the included AC charging cable to the AC input port on the F2400 and then to a standard wall outlet. The unit can be fully charged in approximately 2 hours using 1100W AC input.



Figure 3: AC Charging. The F2400 connected to a wall outlet for fast charging.

2. Solar Charging

Connect compatible solar panels (up to 500W max) to the XT90 input port on the F2400 using the provided solar

charging cable. Optimal charging times depend on sunlight intensity and panel wattage. A full charge can be achieved in approximately 4 hours with sufficient solar input.



Figure 4: Solar Charging. The F2400 connected to solar panels for renewable energy charging.

3. Car Charging

Use the car charging cable to connect the F2400 to your vehicle's 12V cigarette lighter port. This method is suitable for charging on the go, taking approximately 17 hours for a full charge.

4. Combined Charging

For the fastest charging, combine AC and solar input. The F2400 can charge from 0% to 80% in just 1.5 hours using 1100W AC input and 500W solar input simultaneously.



Figure 5: Ultra-Fast Combined Charging. The F2400 connected to both AC power and solar panels for rapid recharging.

Operation

1. Powering On/Off

Press and hold the Main Power Switch to turn the unit on or off. The LCD screen will illuminate, displaying battery level, input/output wattage, and other status indicators.



Figure 6: Informative Display Icons. This image details the various icons and readings on the F2400's LCD screen, including input/output power, battery level, fan status, and protection indicators.

2. Connecting Devices

The F2400 offers 16 output ports to power a wide array of devices simultaneously.

- **AC Outlets:** Six 2400W AC outlets (110V/50Hz-60Hz pure sine wave) for household appliances, power tools, etc. Press the AC Port Button to activate AC output.
- **USB-A Ports:** Two QC3.0 ports (5-12V, 18W) for fast charging smartphones and tablets.
- **USB-C Ports:** Three 20W USB-C ports and one 100W USB-C port for modern devices like laptops and high-

power tablets. Press the USB Ports ON/OFF button to activate USB output.

- **DC Outputs:** Two DC outputs (12V/3A) for various DC-powered devices.
- **XT-60 Output:** One XT-60 output (12V/25A) for specific high-current DC applications.
- **Cigarette Lighter:** One 12V/10A cigarette lighter port for car accessories.



Figure 7: Powering Multiple Devices. The F2400 connected to a laptop, drone, and smartphone, demonstrating its multi-device charging capability.

3. Intelligent Input Current Adjustment

The F2400 features an Input Power Adjustment Knob, allowing you to set the input power from 300W, 500W, 700W, 900W, to 1100W. This feature helps stabilize voltage input and extends the lifespan of the power station, especially when connected to unstable power sources.

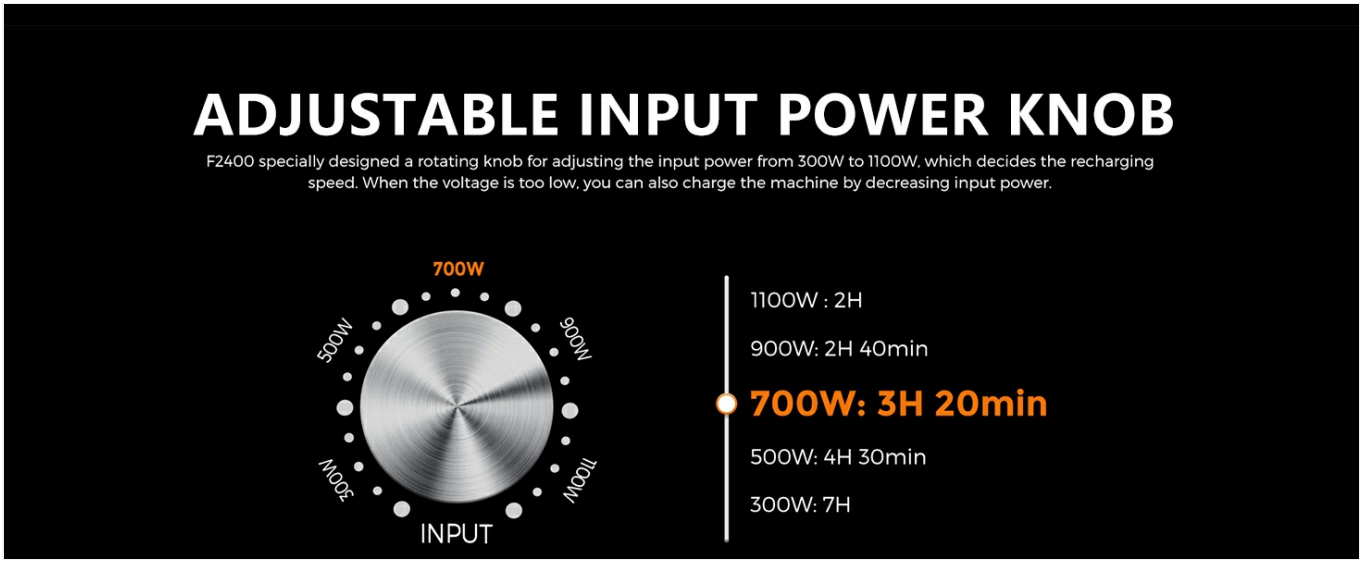


Figure 8: Adjustable Input Power Knob. This image shows the knob with various wattage settings and corresponding charging times.

4. Uninterruptible Power Supply (UPS) Function

When connected to an AC wall outlet and simultaneously powering devices via its AC outputs, the F2400 acts as an Uninterruptible Power Supply (UPS). In the event of a power outage, it automatically switches to battery power within 8 milliseconds, ensuring continuous operation for connected devices like computers or medical equipment.



Figure 9: UPS Enable Power Supply. This diagram shows how the F2400 provides continuous power by switching to its internal battery in less than 8ms during a power stop.

5. APP Control

Control and monitor your F2400 remotely using the dedicated smartphone application. Connect via Bluetooth or Wi-Fi to manage output ports, set charging schedules, and perform remote shutdowns.

Control The Machine By APP

Connect your F2400 to your phone by bluetooth and wifi, you can control the machine ports, set charging start time, remote shutdown, etc. Explore more in the APP.



Figure 10: Control the Machine by APP. A smartphone screen showing the FOSSiBOT app connected to the F2400, allowing remote control and monitoring. Download the app here.

6. LED Lighting

The F2400 includes a built-in LED light with multiple modes: All Bright, SOS, and Strobe. Press the LED Light ON/OFF button to cycle through the modes. This feature is useful for camping, emergencies, or as a general light source.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your FOSSiBOT F2400.

- **Storage:** Store the unit 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.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the cooling fans and vents are clear of obstructions to prevent overheating.
- **Port Protection:** The F2400 features rubber plug covers for DC and USB output ports, providing dust-proof and daily life water-resistance. Ensure these covers are properly sealed when not in use.

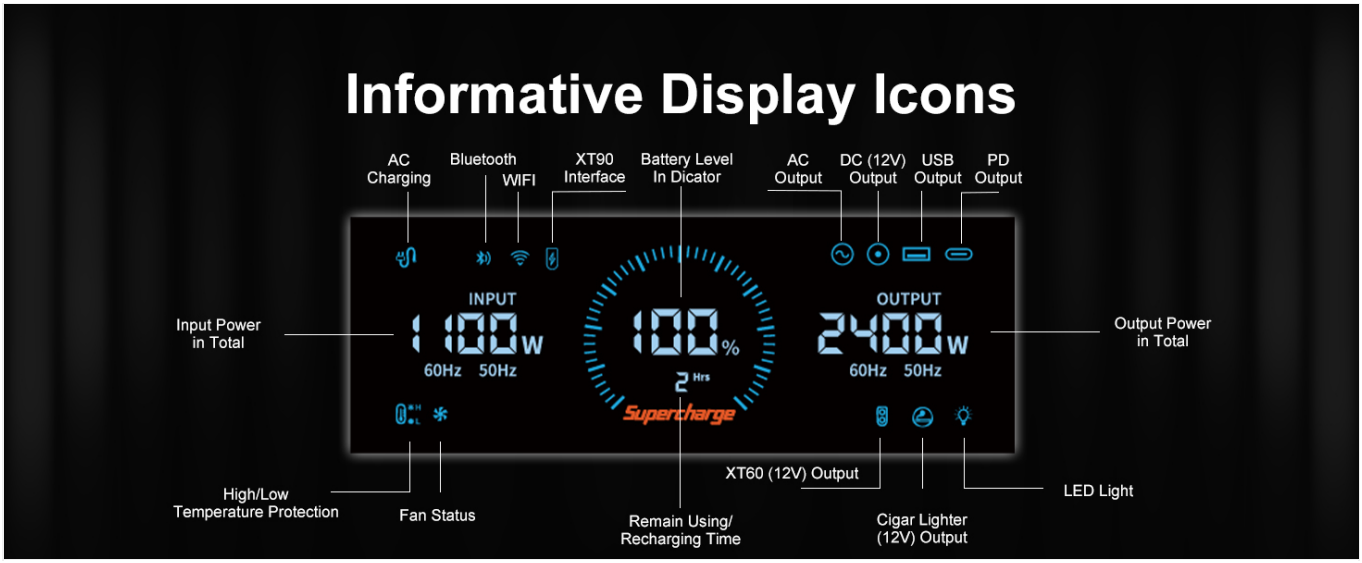


Figure 11: Rubber Plug Covers for Output Ports. This image highlights the protective covers designed to keep dust and water out of the DC and USB ports.

Troubleshooting

If you encounter issues with your FOSSiBOT F2400, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Battery is depleted; Main power switch is off.	Charge the unit; Press and hold the Main Power Switch.
AC output not working.	AC output not activated; Overload protection triggered.	Press the AC Port Button; Reduce load, then restart AC output.
Slow charging.	Low input wattage setting; Insufficient solar input.	Adjust Input Power Adjustment Knob to higher wattage; Ensure solar panels are in direct sunlight and clean.

Problem	Possible Cause	Solution
Overload/Short Circuit.	Connected device exceeds unit's capacity; Short circuit in connected device/cable.	Disconnect overloaded device; Check cables for damage. The BMS will automatically shut off power for protection.

If the problem persists, please contact FOSSIBOT customer service.

SPECIFICATIONS

Feature	Detail
Model Name	F2400
Battery Type	LiFePO4
Capacity	2048Wh
AC Output Power	2400W (Surge 4800W)
AC Input Power	1100W Max
Solar Input Power	500W Max
Charging Time (AC)	Approx. 2 hours
Charging Time (AC+Solar)	Approx. 1.5 hours (0-80%)
Output Ports	6x AC, 2x USB-A QC3.0, 4x USB-C (1x 100W, 3x 20W), 2x DC, 1x XT-60, 1x Cigarette Lighter (Total 16)
Dimensions (L x W x H)	11.2" x 12.6" x 15.2"
Weight	48.4 pounds (22 kg)
Lifespan	3500+ cycles (to 80% capacity)
Special Features	Bidirectional inverter, APP control, UPS function, LED light, BMS protection



Figure 12: Product Dimensions. This image provides the length, width, and height measurements of the F2400 unit.

Warranty and Support

FOSSIBOT provides a 5-Year Worry-Free Warranty for the F2400 Portable Power Station. For any questions, technical assistance, or warranty claims, please contact our customer service team.

Customer Service: Lifetime-Friendly Customer Service. We aim to reply within 24 hours.



Figure 13: Perfect Customer Service. Our team is ready to assist you with any inquiries.

Standard Packing List

The FOSSiBOT F2400 package includes the following items:

- FOSSiBOT F2400 Portable Power Station
- AC Charging Cable
- Solar Charging Cable
- Car Charging Cable
- User Manual (this document)



Figure 14: Standard Packing List. All items included in the F2400 product box.

Official Product Video

▶ **Watch video online**
FOSSiBOT F2400 Portable Power Station

Video 1: FOSSiBOT F2400 Portable Power Station Overview. This video provides a visual demonstration of the F2400's features, charging capabilities, and various applications, including powering multiple devices and its use in outdoor settings.

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