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› FOSSiBOT F2400 Solar Generator User Manual

## FOSSiBOT F2400

# FOSSiBOT F2400 Portable Power Station

User Manual

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## 1. INTRODUCTION

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Thank you for choosing the FOSSiBOT F2400 Portable Power Station. This manual provides essential information for the safe and efficient operation of your device. Please read it thoroughly before use and keep it for future reference.

The FOSSiBOT F2400 is a high-capacity, high-performance portable power station designed to provide reliable power for various applications, from outdoor adventures to emergency home backup. It features a 2048Wh LiFePO4 battery and delivers up to 2400W of continuous AC output (4600W peak).



Image: Front view of the FOSSiBOT F2400 Portable Power Station, showcasing its display, various output ports, and robust design.

## 2. SAFETY INSTRUCTIONS

To ensure safe operation and prolong the lifespan of your FOSSiBOT F2400, please adhere to the following safety guidelines:

- **Do not disassemble or modify the unit.** Unauthorized modifications can lead to fire, electric shock, or injury.
- **Keep away from water and high humidity.** Do not expose the unit to rain or immerse it in water.
- **Avoid extreme temperatures.** Operate and store the unit within the recommended temperature range (refer to specifications).
- **Ensure proper ventilation.** Do not block ventilation openings.
- **Keep out of reach of children and pets.**
- **Use only approved accessories.** Using non-approved accessories may cause damage or injury.
- **Handle with care.** Avoid dropping or subjecting the unit to strong impacts.
- **In case of malfunction, disconnect from power sources immediately.** Contact customer support for assistance.
- **Do not use if damaged.** If the unit or its cables are damaged, do not operate.

### 3. PRODUCT OVERVIEW

The FOSSiBOT F2400 is equipped with multiple ports and features for versatile power delivery. Familiarize yourself with the components:



Image: Diagram illustrating the names and locations of each part of the FOSSiBOT F2400, including the LCD screen, input power adjustment knob, main power switch, USB ports, DC outputs, AC outputs, LED light, cooling fan, and overload protection button.

#### Key Components:

- **LCD Screen:** Displays battery level, input/output power, and charging status.
- **Input Power Adjustment Knob:** Allows selection of charging input power (300W, 500W, 700W, 900W, 1100W).
- **Main Power Switch:** Turns the unit on/off.
- **AC Output Ports (x3):** Standard household outlets for AC appliances.
- **USB-A Ports (x2, QC 3.0):** For fast charging compatible USB devices.
- **Type-C Ports (x4: 3x 20W, 1x 100W):** For charging modern USB-C devices, including laptops.
- **Car Charging Port (12V/10A):** For powering 12V car appliances.
- **XT60 Port (12V/25A):** High-power DC output.
- **DC5521 Ports (x2, 12V/3A):** Standard DC outputs.
- **LED Light:** Built-in illumination.

- **Cooling Fan:** Manages internal temperature during operation.
- **Overload Protection Button:** Resets the unit in case of overload.
- **AC Charge Port:** For charging via wall outlet.
- **XT90 Port:** For solar panel or vehicle input.
- **Cables Storage Space:** Convenient compartment for cables.

## 4. SETUP

### Initial Charge:

Before first use, it is recommended to fully charge the FOSSiBOT F2400. This ensures optimal battery performance and calibration.

1. Connect the AC charging cable to the AC Charge Port on the unit.
2. Plug the other end of the AC charging cable into a standard wall outlet.
3. The LCD screen will indicate charging status. The unit can be fully charged in approximately 2 hours using AC input.
4. Alternatively, you can use the Input Power Adjustment Knob to select a slower charging speed (e.g., 500W) if desired.



Image: Illustration showing various charging methods for the FOSSiBOT F2400, including AC wall charging, solar panel charging, and car charging. It highlights the fast charging capability of 1.5 hours with combined AC and 500W solar input.

## 5. OPERATING INSTRUCTIONS

### Turning On/Off:

Press and hold the Main Power Switch to turn the unit on or off. The LCD screen will illuminate upon activation.

## Charging Devices:

The FOSSiBOT F2400 offers multiple output options:

- **AC Output:** Press the AC button to enable AC power. Plug your AC appliances into the AC output ports. Ensure the total power consumption does not exceed 2400W.
- **USB Output:** Press the USB ON/OFF button to activate the USB-A and Type-C ports. Connect your USB devices for charging.
- **DC Output:** Press the DC ON/OFF button to activate the Car, XT60, and DC5521 ports. Connect your 12V DC devices.



Image: A visual representation of the FOSSiBOT F2400 powering various devices, including a smartphone, drone, electric grill, coffee maker, microwave oven, and electric saw, demonstrating its versatility for different power needs.

## Recharging the Power Station:

The F2400 supports four charging methods:

1. **AC Wall Outlet:** Connect the AC charging cable to a wall outlet. Full charge in less than 2 hours.
2. **Solar Panel:** Connect compatible solar panels (up to 500W) to the XT90 input port. Optimal charging time with 500W solar is approximately 4 hours.
3. **Car Charger:** Connect the car charging cable to your vehicle's 12V cigarette lighter port. Full charge in approximately 17 hours.
4. **AC + Solar Combination:** Combine AC wall charging with solar input for the fastest recharge, achieving full charge in about 1.5 hours.



Image: The FOSSiBOT F2400 connected to a foldable solar panel in an outdoor setting, illustrating its solar charging capability with a maximum input of 500W.

## UPS Function (Uninterruptible Power Supply):

The F2400 can act as an Uninterruptible Power Supply (UPS) for critical devices.

- Connect the F2400 to a wall outlet via its AC input.
- Connect your devices (e.g., computer, medical equipment) to the AC output ports of the F2400.
- In the event of a power outage, the F2400 will automatically switch to battery power within 0.008 seconds, ensuring continuous operation for connected devices.

# SUPPORT **UPS** ENABLE POWER SUPPLY IN 8 ms

F2400 ensures continuous power with Uninterruptible Power Supply (UPS)  
Switchover time in under 8ms

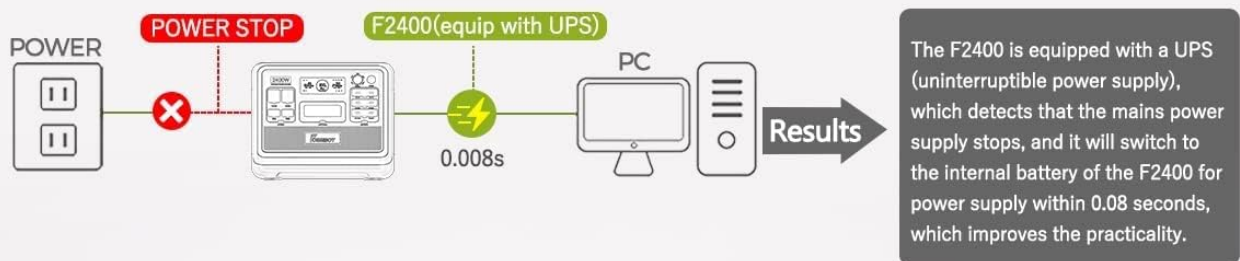


Image: A diagram illustrating the UPS function of the FOSSIBOT F2400, showing how it seamlessly switches to internal battery power within 0.008 seconds when the main power supply is interrupted, protecting connected devices like a PC.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your FOSSiBOT F2400:

- **Storage:** If storing for extended periods, charge the unit to 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents. Ensure all ports are free of dust and debris.
- **Battery Life:** The LiFePO4 battery is designed for over 3500 full charge cycles, providing a long operational lifespan. Avoid consistently draining the battery to 0% or keeping it at 100% for prolonged periods when not in use.
- **Ventilation:** Regularly check that the cooling fan and ventilation openings are not obstructed.



Image: A graphic illustrating the extended lifespan of the FOSSiBOT F2400's LiFePO4 battery, indicating over 3500 cycles compared to other battery types, suggesting more than 10 years of use.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely drained; Main Power Switch not pressed long enough.	Charge the unit using AC power; Press and hold the Main Power Switch for 3-5 seconds.
AC output not working.	AC output not enabled; Overload protection triggered; Appliance power exceeds 2400W.	Press the AC button to enable; Check for overload and press the Overload Protection Button to reset; Reduce connected load.
Unit not charging.	Charging cable not properly connected; Input power setting too low for solar; Faulty adapter/cable.	Ensure secure connections; Adjust Input Power Adjustment Knob; Try a different charging method or cable.
Abnormal noise or smell.	Internal malfunction.	Immediately turn off the unit and disconnect all power sources. Contact customer support.

If the problem persists after trying these solutions, please contact FOSSiBOT customer support.

## 8. SPECIFICATIONS

Feature	Detail
Model	F2400
Battery Type	LiFePO4

Feature	Detail
Capacity	2048 Wh
AC Output Power	2400 W (Continuous), 4600 W (Peak)
AC Output Ports	3
USB-A Output	2 x QC 3.0
Type-C Output	3 x 20W, 1 x 100W
Car Charging Output	1 x 12V/10A
XT60 Output	1 x 12V/25A
DC5521 Output	2 x 12V/3A
Max Solar Input	500 W
AC Charging Input	1100 W (Max)
Charging Cycles	>3500 cycles to 80% capacity
UPS Function	Switchover time <0.008s
Dimensions (Approx.)	39cm (L) x 29cm (W) x 32cm (H)



Image: A visual representation of the FOSSiBOT F2400 with its dimensions clearly marked: 39cm length, 29cm width, and 32cm height.

## 9. WARRANTY AND SUPPORT

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FOSSiBOT provides a warranty for the F2400 Portable Power Station. Please refer to the warranty card included with your purchase for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact FOSSiBOT customer service:

- **Website:** Visit the official FOSSiBOT website for support resources and contact information.
- **Email:** Refer to your product packaging or warranty card for the support email address.

When contacting support, please have your product model (F2400) and purchase information ready.