

FOSSIBOT F2400

FOSSiBOT F2400 Solar Generator User Manual

Model: F2400

PRODUCT OVERVIEW

The FOSSiBOT F2400 is a high-capacity portable power station designed to provide reliable power for various applications, including home backup, outdoor camping, RV use, and emergency situations. It features a robust LiFePO4 battery, multiple charging options, and a wide array of output ports to power a diverse range of devices.



Figure 1: FOSSiBOT F2400 Solar Generator with accompanying solar panel.

This image displays the FOSSiBOT F2400 portable power station alongside its foldable solar panel, illustrating the complete solar generator system.

Key Features:

- **High Capacity & Power Output:** 2048Wh capacity with 2400W continuous output and 4600W surge power, capable of powering heavy-duty tools and appliances.
- **Advanced Battery Technology:** Utilizes car-grade LiFePO4 batteries with over 4000 charge cycles, ensuring a long lifespan of approximately 10 years.
- **Versatile Charging Options:** Supports 500W solar input and 1100W AC charging, allowing for a full charge in as little as 1.5 hours with dual charging. Also includes car charging (12V/10A).
- **Uninterruptible Power Supply (UPS):** Features an 8ms switch time to prevent data loss during power outages, supporting up to 1100W load in UPS mode.
- **Multiple Output Ports:** Equipped with 6 AC outlets (2400W), 100W USB-C PD, and various other USB-A, DC, and car ports, enabling simultaneous power for up to 16 devices.
- **Pure Sine Wave Output:** Provides stable, grid-quality power to safeguard sensitive electronics.
- **Smart Control & Monitoring:** Monitor and adjust settings remotely via a dedicated mobile application (APP) with Bluetooth and Wi-Fi connectivity.
- **Adjustable Input Power:** A rotating knob allows adjustment of input power from 300W to 1100W, optimizing charging speed and ensuring safe charging in unstable grids.
- **Integrated LED Lighting:** Built-in warm tone LED light bar with adjustable brightness and strobe/SOS modes for emergencies or outdoor use.
- **Durable Design:** Features rubber plug covers for output ports, offering dust-proof and daily life water-resistance.

2048Wh / 2400W

Charge 99% of Your Devices



Light (12W)

145
Hours



43"TV (110W)

15.8
Hours



Coffee Maker
(1000W)

1.7
Hours



Microwave
(700W)

2.5
Hours



Electric Fan
(40W)

50
Hours

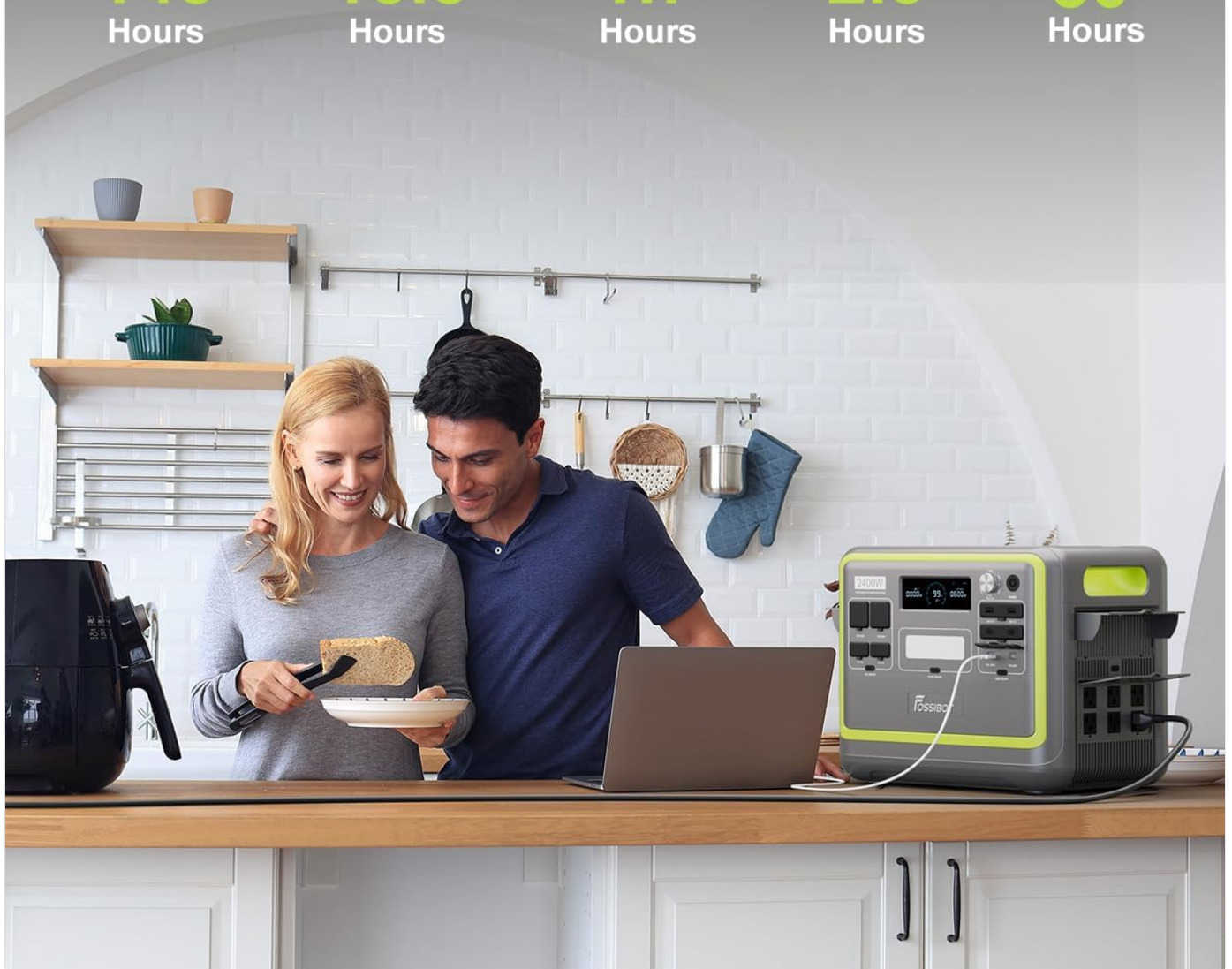


Figure 2: FOSSiBOT F2400 powering various household devices.

This illustration demonstrates the FOSSiBOT F2400's capability to power common household appliances like lights, TVs, coffee makers, microwaves, and electric fans for extended durations.

LiFePO4 Battery

Safer, Reliable & Long lasting

4000 +
Cycles

10 YEARS
Lifespan

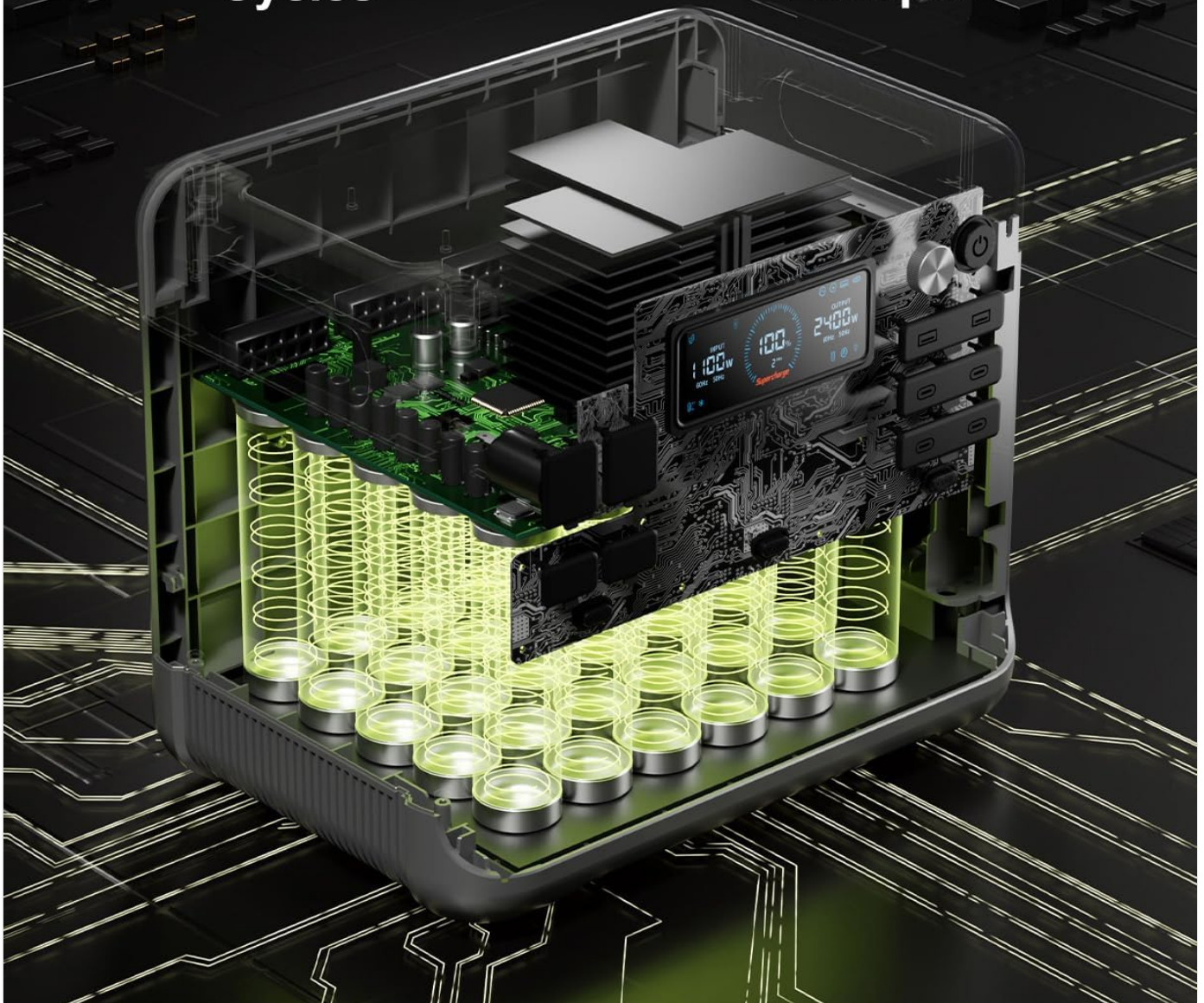


Figure 3: Internal view highlighting the LiFePO4 battery structure.

This image provides a cutaway view of the FOSSiBOT F2400, emphasizing its safe, reliable, and long-lasting LiFePO4 battery, rated for over 4000 cycles and a 10-year lifespan.

SETUP

Unboxing and Initial Inspection:

Upon receiving your FOSSiBOT F2400, carefully unpack all components and inspect for any signs of damage. The

standard packing list includes:

- FOSSiBOT F2400 Portable Power Station
- AC Charging Cable
- Solar Charging Cable
- Car Charging Cable
- User Manual



Figure 4: Contents of the FOSSiBOT F2400 package.

This image illustrates the FOSSiBOT F2400 power station and all included accessories: AC charging cable, solar charging cable, car charging cable, and the user manual.

Charging the Power Station:

Before first use, it is recommended to fully charge the FOSSiBOT F2400. You have several charging options:

- **AC Wall Outlet:** Connect the provided AC charging cable directly to a standard wall outlet. The F2400 supports 1100W AC charging, allowing a full charge in approximately 2 hours.
- **AC + Solar Charging:** For the fastest charging, combine AC wall charging with solar panel input. This dual input can achieve a full charge in about 1.5 hours (up to 1600W combined).
- **Solar Panel:** Connect compatible solar panels (up to 500W max input) using the provided solar charging cable. Charging time will vary based on sunlight intensity and panel wattage.
- **Car Charging:** Use the provided car charging cable to charge the unit from your vehicle's 12V/10A car outlet.

Fast Charging With in 1.5 Hrs



AC+Solar Charging
(1600W)

1.5 Hrs



AC Charging
(1100W)

2 Hrs



Solar Charging
(400/200W)

5/10 Hrs



Car Charging
(120W)

17 Hrs



Figure 5: Various charging methods for the FOSSiBOT F2400.

This graphic illustrates the different ways to charge the FOSSiBOT F2400, including AC+Solar (1.5 Hrs), AC (2 Hrs), Solar (5/10 Hrs depending on wattage), and Car Charging (17 Hrs).



Figure 6: FOSSiBOT F2400 charging via AC outlet.

This image shows the FOSSiBOT F2400 being charged from a standard wall outlet, highlighting its rapid 1.5-hour full charge capability when combined with solar input.

Suitable for Various Solar Panels

500W Max Solar Charging



Figure 7: FOSSiBOT F2400 connected to solar panels for charging.

This image depicts the FOSSiBOT F2400 being charged by solar panels in an outdoor setting, emphasizing its compatibility with various solar panel types and up to 500W max solar charging.

OPERATING INSTRUCTIONS

Powering On/Off:

To power on the FOSSiBOT F2400, press and hold the main power button located on the control panel. The display will

illuminate, indicating the unit is ready for use. To power off, press and hold the power button again until the display turns off.

Connecting Devices:

The F2400 offers a wide range of output ports:

- **AC Outlets:** 6 x 2400W AC outlets for standard household appliances.
- **USB-C Ports:** 4 x Type-C ports (20W/100W) for fast charging laptops, tablets, and smartphones.
- **USB-A Ports:** 2 x USB-A ports (18W Each).
- **DC Output:** 2 x DC outputs (12V/3A Each).
- **Car Outlet:** 1 x Car outlet (12V/10A).
- **XT60 Port:** 1 x XT60 port (12V/25A) for specific high-power devices.

Simply plug your devices into the appropriate ports. Ensure the total power draw does not exceed the unit's maximum output (2400W continuous, 4600W surge).

Power 16 Devices at Once

1

Car Outlet
(12V/10A)

1

XT60
(12V/25A)

2

DC Output
(12V/3A Each)

2

USB-A Ports
(18W Each)

4

TYPE-C Ports
(20W/100W)

6

AC Outlets
(2400W Output)



Figure 8: Detailed view of FOSSiBOT F2400's 16 output ports.

This image provides a clear diagram of all 16 output ports on the FOSSiBOT F2400, including car outlet, XT60, DC outputs, USB-A, Type-C, and AC outlets, demonstrating its ability to power multiple devices simultaneously.

Using the APP Control:

The FOSSiBOT F2400 can be controlled and monitored via a smartphone application. Download the official FOSSiBOT app (usually found by scanning a QR code in the manual or on the product page). Connect your phone to the F2400 via Bluetooth or Wi-Fi to access real-time monitoring, adjust settings, set charging start times, and remotely shut down the unit.

APP Control Your Power

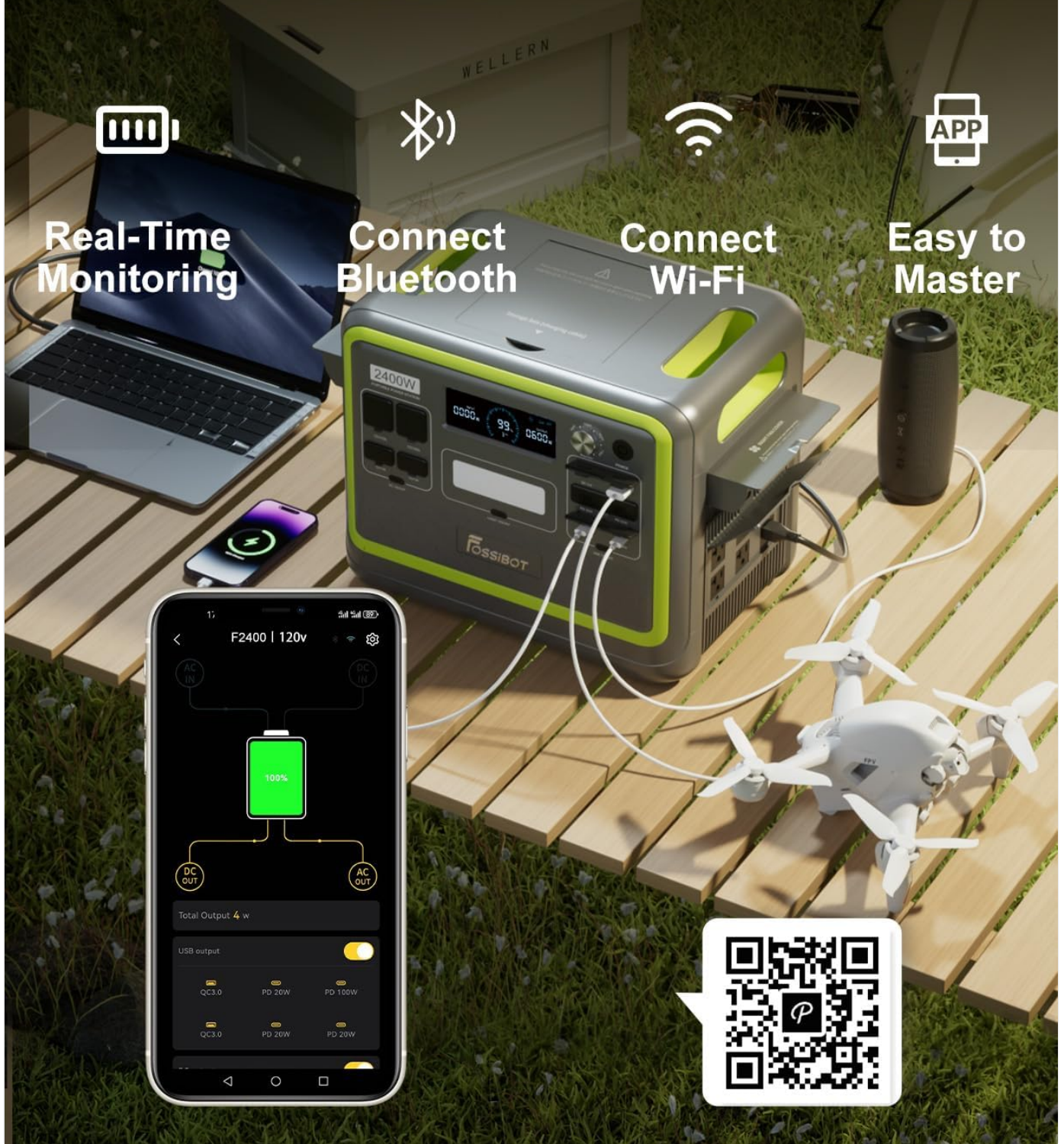


Figure 9: Controlling the FOSSiBOT F2400 via mobile app.

This image provides a clear diagram of all 16 output ports on the FOSSiBOT F2400, including car outlet, XT60, DC outputs, USB-A, Type-C, and AC outlets, demonstrating its ability to power multiple devices simultaneously.

UPS Functionality:

The F2400 features an Uninterruptible Power Supply (UPS) function with an 8ms switchover time. This allows connected devices to continue running seamlessly during a power outage, making it ideal for sensitive electronics like computers, CPAP machines, and security cameras.

Power Never Sleeps with UPS



Computer



CPAP



Refrigerator



Security
Camera

Switchover Time < 8ms



Figure 10: FOSSIBOT F2400 providing uninterrupted power.

This image illustrates the FOSSIBOT F2400's UPS capability, ensuring continuous power for essential devices like computers, CPAP machines, refrigerators, and security cameras with a switchover time of less than 8ms.

Adjustable Input Power:

Use the input power knob on the control panel to adjust the recharging speed from 300W to 1100W. This feature is useful for optimizing charging based on available power sources or when dealing with unstable grid voltages.

ADJUSTABLE INPUT POWER KNOB

F2400 specially designed a rotating knob for adjusting the input power from 300W to 1100W, which decides the recharging speed. When the voltage is too low, you can also charge the machine by decreasing input power.

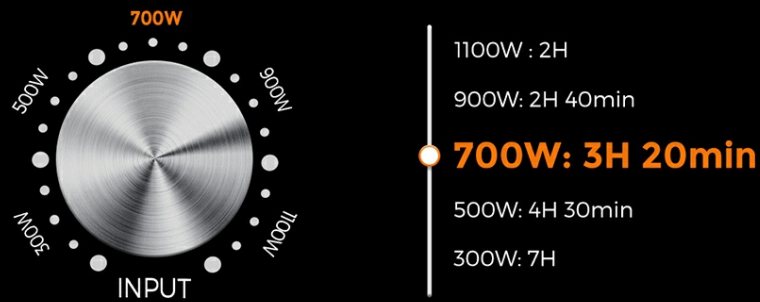


Figure 11: Adjustable input power knob on the FOSSiBOT F2400.

This graphic highlights the adjustable input power knob on the FOSSiBOT F2400, allowing users to set the recharging speed from 300W to 1100W, which is crucial for adapting to different power sources and grid conditions.

LED Lighting:

The F2400 includes a built-in LED light bar. Press the "LIGHT ON/OFF" button to cycle through different brightness levels (low, medium, high) and special modes (strobe, SOS). This feature is useful for illumination during travels, camping, or emergencies.



Figure 12: FOSSiBOT F2400's warm tone LED lighting feature.

This image showcases the FOSSiBOT F2400's integrated warm tone LED lighting, which serves as a light source or SOS flashlight during travel or emergencies.

MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, ensure the battery is charged to around 50-80% and recharge every 3-6 months to prevent deep discharge.
- **Fan Covers:** Ensure the fan covers (left and right) are open when operating to allow for proper ventilation and

prevent overheating.

- **Port Protection:** Keep the rubber plug covers on output ports when not in use to protect against dust and water.



Figure 13: Rubber plug covers for FOSSiBOT F2400 output ports.

This image highlights the rubber plug covers on the FOSSiBOT F2400's DC and USB output ports, designed to provide dust-proof and daily life water-resistance for enhanced durability.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit not turning on	Low battery; Power button not held long enough	Charge the unit; Press and hold the power button for 3-5 seconds
AC output not working	AC output not enabled; Overload protection triggered	Ensure AC output is turned on; Reduce connected load; Restart unit
Slow charging speed	Low input power setting; Insufficient solar input (for solar charging)	Adjust input power knob to higher wattage; Ensure solar panels are in direct sunlight and clean
Overheating/Fan constantly running	Poor ventilation; High ambient temperature; Heavy load	Ensure fan covers are open and clear; Move unit to a cooler environment; Reduce load

For more detailed troubleshooting or issues not listed here, please refer to the comprehensive user manual or contact customer support.

SPECIFICATIONS

Feature	Detail
Model Name	F2400
Brand	FOSSIBOT
Wattage (Output)	2400W (Continuous), 4600W (Surge)

Feature	Detail
Capacity	2048Wh
Battery Type	LiFePO4
Lifespan	4000+ Cycles (to 80% capacity)
AC Charging Input	1100W Max
Solar Charging Input	500W Max
UPS Switch Time	<8ms
Product Dimensions	12.6"L x 11.2"W x 15.2"H

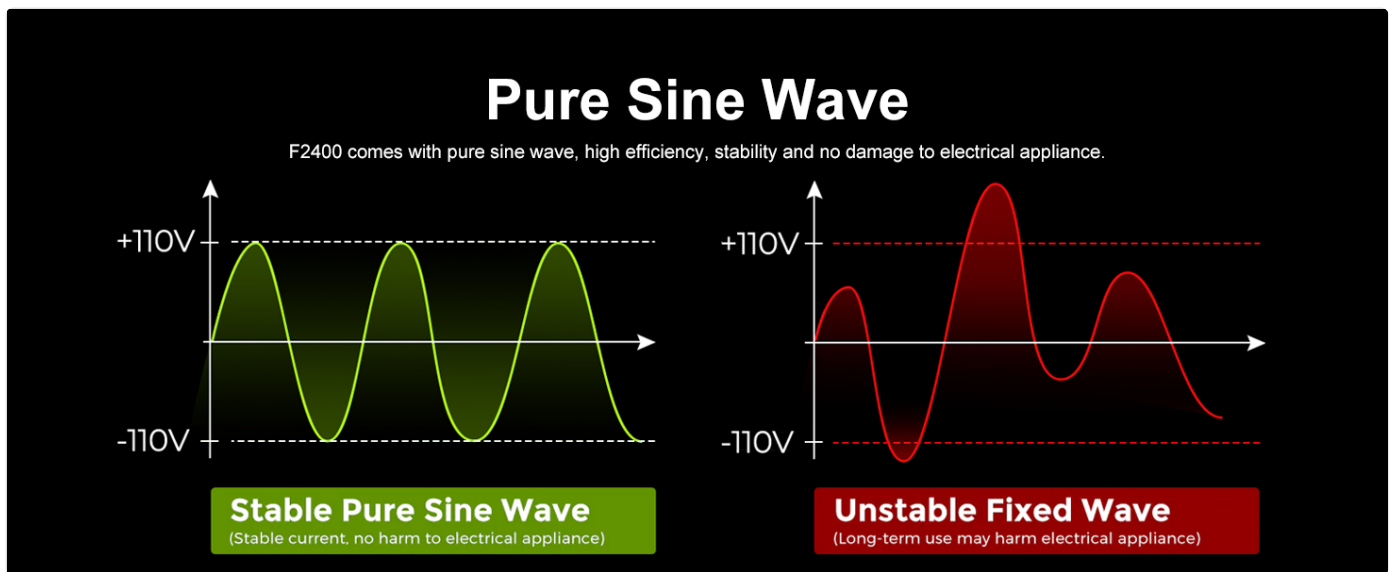


Figure 14: Overview of FOSSiBOT F2400's main features.

This image summarizes the FOSSiBOT F2400's core features, including its 2048Wh/2400W capacity, 4000+ lifespan LiFePO4 battery, 500W max solar charging, 1.5 hours full recharge, Pro UPS (<8ms switch over time), Smart APP control, and 16 versatile ports.

WARRANTY AND SUPPORT

The FOSSiBOT F2400 comes with a **5-year warranty** and lifetime technical support. For any questions or assistance, please contact FOSSiBOT customer service. They aim to provide a satisfactory answer within 24 hours.



Figure 15: FOSSIBOT's commitment to customer service.

This image emphasizes FOSSIBOT's dedication to perfect customer service, offering lifetime specialist support and a commitment to respond to inquiries within 24 hours.