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FOSSiBOT FB3840

FOSSiBOT FB3840 LiFePO4 Backup Battery User Manual

Model: FB3840

Brand: FOSSiBOT

1. Introduction

Thank you for choosing the FOSSiBOT FB3840 LiFePO4 Supplemental Battery. This high-capacity battery pack is designed to extend the runtime of your FOSSiBOT F3600 Pro portable power station, providing reliable and stable power for various applications, from home backup to outdoor adventures. With a robust 3840 Wh capacity, it can be expanded to a total of 11520 Wh by connecting multiple units. Its LiFePO4 battery technology ensures a long lifespan of over 6500 charge/discharge cycles, offering more than 10 years of dependable use.



Image 1.1: The FOSSiBOT FB3840 LiFePO4 Backup Battery.

2. Safety Instructions

Please read all safety instructions carefully before using the FOSSiBOT FB3840 to ensure safe operation and prevent damage to the product or injury to yourself.

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water or moisture.
- Use only original or certified cables and accessories.
- Keep the unit away from children and pets.
- Do not use the unit if it is damaged or has been dropped.
- Ensure proper ventilation during use and charging to prevent overheating.
- Dispose of the product according to local regulations for LiFePO4 batteries.

3. Package Contents

The FOSSiBOT FB3840 package includes the following items:

- FOSSiBOT FB3840 Supplemental Battery
- Parallel Cable
- Leather Sheath (for cables)
- User Manual



Image 3.1: The FOSSiBOT FB3840 and its included accessories.

4. Product Overview

Familiarize yourself with the main components and ports of the FOSSiBOT FB3840:



Image 4.1: Front and rear view of the FB3840 highlighting key features.

- **XT60 Input:** Used for solar charging (up to 200W directly) or connecting to the F3600 Pro for combined charging.
- **Power ON/OFF Button:** Long press to turn the unit on or off.
- **USB ON/OFF Button:** Short press to activate/deactivate the USB output ports.
- **USB Output:** Includes a 18W USB-A port and a 100W Type-C port for charging various devices.
- **Parallel Connection Port:** Used to connect the FB3840 to an F3600 Pro power station or another FB3840 unit for capacity expansion.

5. Setup

The FOSSiBOT FB3840 is primarily designed to work as an expansion battery for the FOSSiBOT F3600 Pro portable power station. Follow these steps for initial setup:

1. **Unpack the Unit:** Carefully remove the FB3840 and all accessories from the packaging.
2. **Initial Charge:** It is recommended to fully charge the FB3840 before first use. Refer to the 'Charging the FB3840' section for details.

3. **Connect to F3600 Pro (Optional):** To expand the capacity of your F3600 Pro, use the provided parallel cable to connect the FB3840 to the F3600 Pro's expansion port. Ensure both units are powered off before connecting.



Image 5.1: Connecting the FB3840 to the F3600 Pro for expanded power.

6. Operating Instructions

6.1 Charging the FB3840

The FB3840 can be charged via solar panels or AC power, especially when connected to an F3600 Pro.

- **Solar Charging (Direct):** The FB3840 smart battery supports 200W solar charging via the XT60 input port on the front. Connect a compatible solar panel to this port.

200W Solar Charge for FB3840 Battery Pack

The FB3840 smart battery supports 200W solar charging via the XT60 input port on the front.



Image 6.1: Direct solar charging of the FB3840.

- **Combined Solar and AC Charging (with F3600 Pro):**When connected to the F3600 Pro, the FB3840 can be recharged simultaneously with the main unit using both AC power (up to 2200W) and solar power (up to 2000W). This dual charging capability is ideal for rapid replenishment.



Image 6.2: Combined solar charging for F3600 Pro and FB3840.



Image 6.3: Simultaneous AC and solar charging of F3600 Pro and FB3840.

6.2 Using the FB3840

The FB3840 provides versatile DC output power for various small electronic devices.

- **USB Output:** The unit is equipped with an 18W USB-A output and a 100W Type-C output. To activate these ports, short press the USB ON/OFF button. Connect your smartphones, laptops, fans, USB LED lights, and other compatible devices.



Image 6.4: The FB3840 providing portable power for an RV.

6.3 Expanding Capacity

The FB3840 is designed to seamlessly integrate with the FOSSiBOT F3600 Pro, allowing you to significantly increase your total power capacity.

- Each FB3840 unit provides an additional 3840Wh of capacity.
- Connecting one FB3840 to an F3600 Pro doubles the total capacity to 7680Wh.
- Connecting two FB3840 units to an F3600 Pro triples the total capacity to an impressive 11520Wh, ideal for extended use or higher power demands.

Ensure all connections are secure and follow the F3600 Pro manual for specific instructions on capacity expansion.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your FOSSiBOT FB3840 LiFePO4 battery.

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures. For long-term

storage, it is recommended to discharge the battery to about 50% and recharge it every 3-6 months to maintain battery health.

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use harsh chemicals or abrasive materials.
- **Battery Lifespan:** The FB3840 utilizes EV-grade LiFePO4 batteries, known for their safety and long cycle life of over 6500 cycles, which translates to more than 10 years of typical use.



Image 7.1: The durable LiFePO4 battery cells inside the FB3840.

8. Troubleshooting

If you encounter issues with your FOSSiBOT FB3840, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is fully discharged; Power button not pressed correctly.	Charge the unit; Long press the power button for 3 seconds.

Problem	Possible Cause	Solution
USB output not working	USB output not activated; Device not compatible or cable faulty.	Short press the USB ON/OFF button; Try a different device or cable.
Unit not charging	Charging cable not connected properly; Charger faulty; Extreme temperature.	Ensure all connections are secure; Try a different charging source; Move to a suitable temperature environment.
Overload warning	Connected devices exceed the unit's output capacity.	Disconnect some devices; Check the power requirements of your devices.

If the problem persists, please contact FOSSiBOT customer support for assistance.

9. Specifications

Detailed technical specifications for the FOSSiBOT FB3840 LiFePO4 Supplemental Battery:

Feature	Detail
Manufacturer	FOSSiBOT
Item Model Number	FB3840
Product Dimensions (L x W x H)	61 x 32 x 48 cm
Item Weight	43 Kilograms
Color	F3600-backup battery
Material	ABS + LiFePO4
Power Source	Battery Powered
Voltage	230 Volts
Power (Rated)	3600 Watts
Output Power (Peak)	7200 Watts
Special Features	Digital display, Overload protection, Highly durable
Components Included	FOSSiBOT FB3840 Supplemental Battery
Recommended Product Uses	Camping, Commercial, Domestic

10. Warranty and Support

FOSSiBOT products are built with quality and reliability in mind. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official FOSSiBOT website.

If you require technical assistance, have questions about product operation, or need to report an issue, please contact FOSSiBOT customer support through the following channels:

- **Official Website:** Visit the FOSSiBOT official website for FAQs, support resources, and contact forms.
- **Email Support:** Refer to your product documentation for the dedicated customer support email address.
- **Online Retailer:** For purchase-related inquiries, you may also contact the retailer where you purchased the product.

Please have your product model number (FB3840) and purchase details ready when contacting support to ensure a swift resolution.

Ask a question about this manual

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