



USER MANUAL

FP5000-48V



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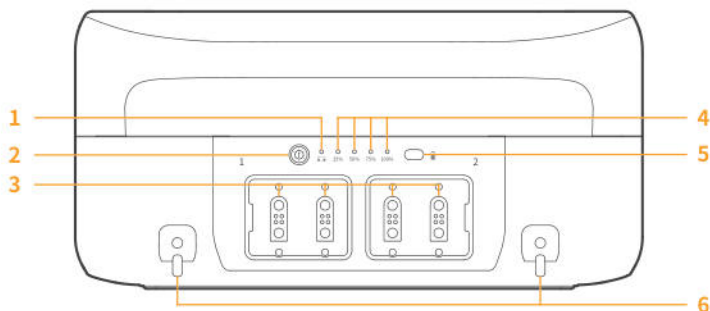
FP5000-48V-V1.0

DESCRIPTION OF SYMBOLS

⚠ Important Notes

💡 Tips for operation and use

FUNCTION INTRODUCTION



Product appearance and structure may vary by country/region; refer to the physical product.

- 1 Indicator Under Cascade Status
- 2 Serial Number Knob
- 3 Battery Expansion Port

- 4 LED Capacity Indicator
- 5 Power Display Switch
- 6 Locking Nut

SPECIFICATIONS

GENERAL INFO

Model	FP5000-48V
Capacity	5120Wh(51.2V100Ah)
Net Weight	Around 40.8kg / Around 89.9lb
Dimension	L574*W380*H186 mm / L22.6*W15*H7.3 in
Maximum Operating Altitude	3000m

EXTRA BATTERY PORT

XT120*4	Cascadable to devices with XT120 cascade port
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BATTERY SPECIFICATIONS

Cell Materials	LFP (LiFePO4)
Cycle Life	Maintains over 80% capacity after 4000 cycles (cycles at 0.5C/0.5C at 25°C(77°F))

OPERATING TEMPERATURE

Supply Ambient Temperature	-20°C ~ 45°C / -4°F ~ 113°F
Charging Ambient Temperature	-20°C ~ 45°C / -4°F ~ 113°F (Battery Heating Activation)
Storage Ambient Temperature	-20°C ~ 45°C / -4°F ~ 113°F (Optimal Range: -20°C ~ 45°C / -4°F ~ 113°F)

OPERATING INSTRUCTIONS



Light press to show battery capacity

- 1: Before use, make sure the EP5000-48V power pack and the host have similar battery levels, with a difference of no more than 10%.

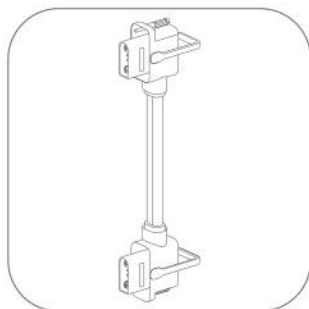
If there is a significant difference in battery levels, it will take a longer time for the host and power pack to display green, indicating a complete balance.

- 2: When cascading multiple power packs, verify the serial numbers to ensure each is unique. This serial number corresponds to the power pack's ID in the APP. Duplicate serial numbers may cause issues such as inaccurate power readings.
- 3: Use the XT120-48V cascade cable to connect the host and the FP5000-48V power pack through the cascade port.
- 4: Once the connection is completed, the status LED of the FP5000-48V power pack should display either yellow or green. Yellow indicates a significant difference in battery levels, indicating that the balancing process is in progress. Green indicates that the power pack and the host are fully balanced.
(If you need to use high-power devices, please wait for complete balance.)

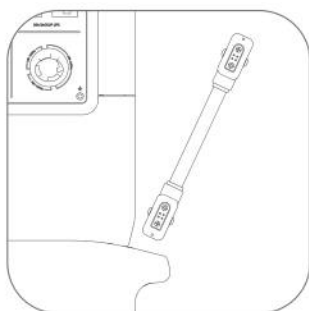
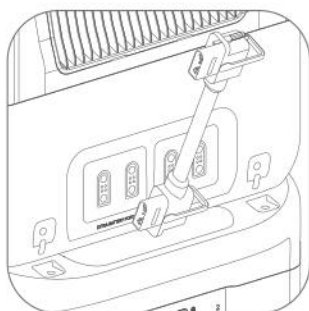
HOW TO INSTALL AND REMOVE THE CASCADE CABLE

Installation

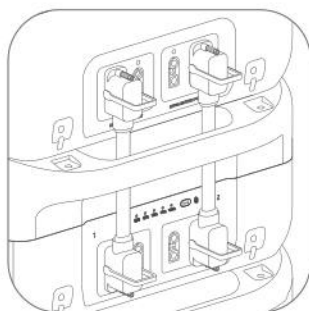
- 1: Determine the connection direction of the cascade cable. The rounded side of the XT120 should face upward, as shown in the correct direction in the figure.



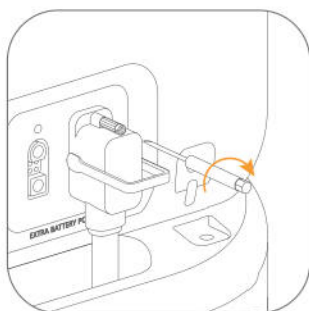
2: Thread one end of the cascade cable through the handle, tilting it slightly at an angle as shown in the figure.



3: Press the plug, insert it into the side sockets first, then the middle one, as shown in the figure.

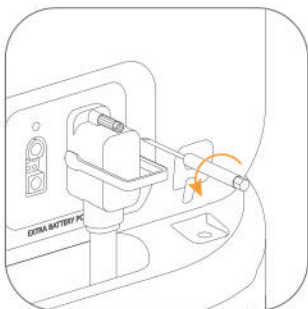


4: After insertion, use a screwdriver to tighten the screws at both ends of the cascade cable clockwise, securing the installation to prevent loosening, as shown in the figure.



Removal

- 1: Use a screwdriver to rotate the screws at both ends of the cascade cable counterclockwise, loosening this reinforcement structure, as shown in the figure.

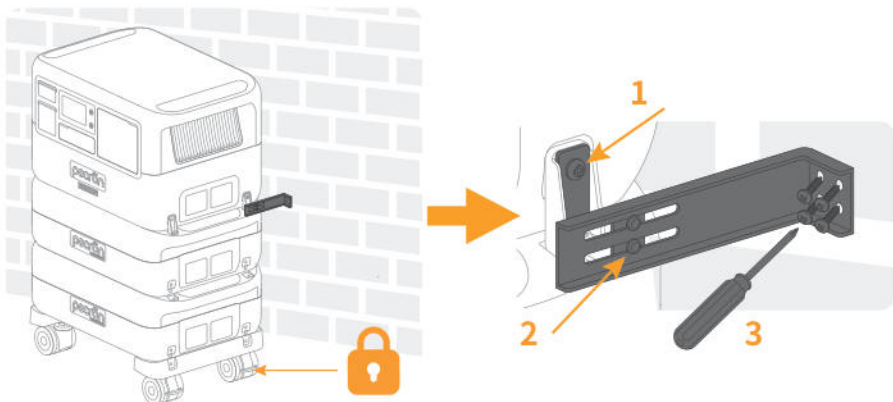


- 2: Pull the handle to detach the plug, as shown.



USAGE OF THE FIXING METAL PLATE

When the machine stacking reaches three layers, use the L-shaped metal bracket to secure it to the wall.



BATTERY HEATING FUNCTION DESCRIPTION

The FP5000-48V supports battery heating.

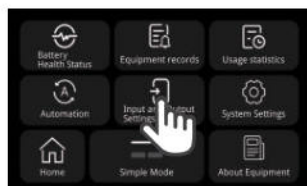
Users can switch the heating mode in the F5000 LFP's battery heating settings based on their usage.

Click "Menu" showed as **(Picture 1)**.

Click "Input and Output Settings" showed as **(Picture 2)**.



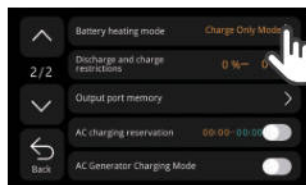
(Picture 1)



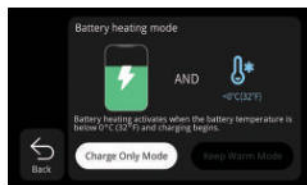
(Picture 2)

Page up/down by clicking "∧"/"∨" on the left side.

Then click "Battery heating mode" showed as **(Picture 3)**.



(Picture 3)



(Picture 4)

Charge-Only Mode (Picture 4): The battery heating activates only when the battery temperature is below 0°C (32°F) and a charging source is connected. In this mode, the heater is powered entirely by the charging source.

Keep-Warm Mode (Picture 4): After the unit is powered on, the battery heating activates automatically when the battery temperature falls below 5°C (41°F), ensuring continuous operation.

Note: In low-temperature environments, this mode will accelerate battery degradation.

Notes:

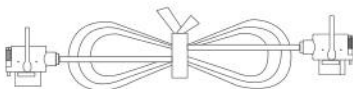
1: The temperature detection accuracy for the battery heating is $\pm 3^{\circ}\text{C}$ (5.4°F).

2: If the ambient temperature is extremely low, causing the battery temperature to drop below -20°C (-4°F), the device will be completely unable to activate battery heating.

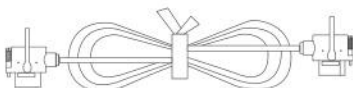
产品及配件清单



PECRON FP5000-48V *1



XT120 Cascade Cable *2



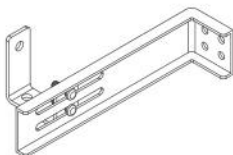
XT120 Extended Cascade Cable *1



Slotted Screwdriver *2



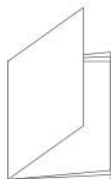
Stacking Sheet Metal *4



Metal Bracket *2



Accessory Pouch *1



User Instruction *1

1: What kind of battery is used in FP5000-48V? How long it can last?

FP5000-48V utilizes high quality UL certified automotive LiFePO₄ battery, it can retain 80% of its original capacity at 4000 complete charge cycles.

2: Which devices can the FP5000-48V Power Pack be cascaded with?

Currently, the FP5000-48V Power Pack can be cascaded with devices featuring an XT120 cascade port. It is not recommended to cascade it with devices that have an MJ32 port, as excessive power draw may trigger overheat protection.

3: What's the recharging ways of FP5000-48V?

FP5000-48V's charging input power matches that of the connected host power station, allowing it to be charged simultaneously with the host through wall chargers, solar panels, car chargers, or generators.

4: Other issues to be noted.

Pay attention to the point that the product is without waterproof function and prevent water getting into it.

Pay attention to ventilation and heat dissipation when using, and keep good ventilation at the air inlet and outlet of the product.

Do not use the product in special occasions (under the mine, gas station, etc.)

MAINTENANCE AND CARE

1. Store the device in an environment with a temperature range of -20°C (-4°F) to 45°C (113°F).

The recommended temperature range is approximately 0°C (32°F) to 30°C (86°F) to maintain battery health.

2. Store the product in a dry, cool, well-ventilated, and safe areas to reduce the risk of falls.

3. Ensure the device is kept away from water sources, heat sources, strong magnetic fields, corrosive gas environments, and any flammable or explosive substances.

4. Fully charge the device at least once every two months. Prolonged periods without a full charge may result in inaccurate battery levels and reduced battery consistency.

5. If storing the product long-term, please ensure to perform a charge and discharge cycle (fully charge, then discharge to 60% for storage) every three months to maintain battery health.

6. Do not leave the device uncharged or unused for more than 6 months.

Otherwise, the warranty will be void.

7. If the power interface is dirty, please clean it with a dry cloth.

Do not use alcohol or other flammable agents for cleaning.

DISCLAIMER

Please read the user manual thoroughly before using this product, and keep this manual in a safe place for future reference. Failure to follow the instructions for proper set up, use, and care for the device can increase the risk of serious personal injury, death, or property damage. Once you use this device, you are deemed to have understood, recognized and accepted all terms and contents of this document. The user shall be responsible for his own actions and all consequences arising from failure to use the device in accordance with the “User Manual” , or as authorized in PECRON's current product literature. In compliance with laws and regulations, PECRON reserves all rights for final explanation, and to change these terms and conditions at any time without prior notice. In the event that any revisions are made, the revised terms and conditions shall be posted on our website immediately, please visit our website to inform yourself of any changes.

WARNING

1. Do not place this product near heat sources, such as open flames or heating furnaces, while it is in operation.
2. Do not allow this product to come into contact with any liquids. Do not submerge it in water or expose it to moisture. Do not use this product in the rain or in damp environments.
3. Do not use this product in environments with strong static electricity or magnetic fields.
4. Do not disassemble this product or puncture it with sharp objects in any way.
5. Do not cause a short circuit in this product using wires or other metal objects.
6. Do not use this product to directly start a vehicle; it is only intended for charging vehicle batteries.
7. Do not use non-official parts or accessories. If replacement is needed, please contact PECRON Baikelong's official sales channels for purchase information.
8. When using this product, strictly adhere to the operating temperature specified in this user manual. Excessively high temperatures may cause the battery to catch fire or even explode; excessively low temperatures may significantly reduce product performance or render it unusable.
9. Do not place heavy objects on top of this product.
10. Do not force the fan to stop spinning during use, or expose the product to poorly ventilated or dusty environments.
11. Avoid impacts, drops, or severe vibrations. If the product is subjected to severe external force, immediately turn off the power and cease use. Secure the product during transportation to prevent vibrations and impacts.
12. If the product accidentally falls into water during use, place it in a safe, open area and keep it away from the product until it is completely dry. The dried product must not be reused and should be disposed of properly according to the disposal section of this document. If the product catches fire, use fire extinguishing equipment in the following recommended order: water or water mist, sand, fire blanket, dry powder, or carbon dioxide fire extinguisher.
13. If the product's interfaces are dirty, clean them with a dry cloth.

14. Handle the product carefully to prevent it from tipping over and causing damage. If the product tips over and suffers severe damage, immediately shut it down, place the battery in an open area away from flammable materials and people, and dispose of it in accordance with local laws and regulations.
15. Store the product in a location inaccessible to children and pets.

DISPOSAL

1. When conditions permit, please ensure that the battery in this product is completely discharged before placing the product in the designated battery recycling bin. This product contains a battery, which is a kind of hazardous chemical. It is strictly prohibited to dispose of it in a regular rubbish bin. For further details, please follow the local laws and regulations regarding battery recycling and disposal.
2. If the battery cannot be fully discharged due to a malfunction of this product, do not dispose of the battery directly in the battery recycling bin. Instead, contact a professional battery recycling company for further handling.
3. Batteries that have been over-discharged will not be able to start. Please dispose of them as waste.

EXCLUSIONS

PECRON's warranty does not apply to:

Misused, abused, modified, damaged by accident, or used for anything other than normal consumer use as authorized in PECRON's current product literature.

Follow PECRON's official account for more information and services.



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Customer Support: support@pecron.com

Call Us: +1 888 906 5997 (9am -5pm EST, Mon. -Fri.)

PLEASE NOTE YOUR ORDER NUMBER AND PLATFORM OF PURCHASE,
SO WE CAN QUICKLY HELP YOU CHECK THE ORDER INFO AND SOLVE IT.

PECRON THANK YOU FOR YOUR SUPPORT AND COOPERATION!