

pecron

EB3000-24V

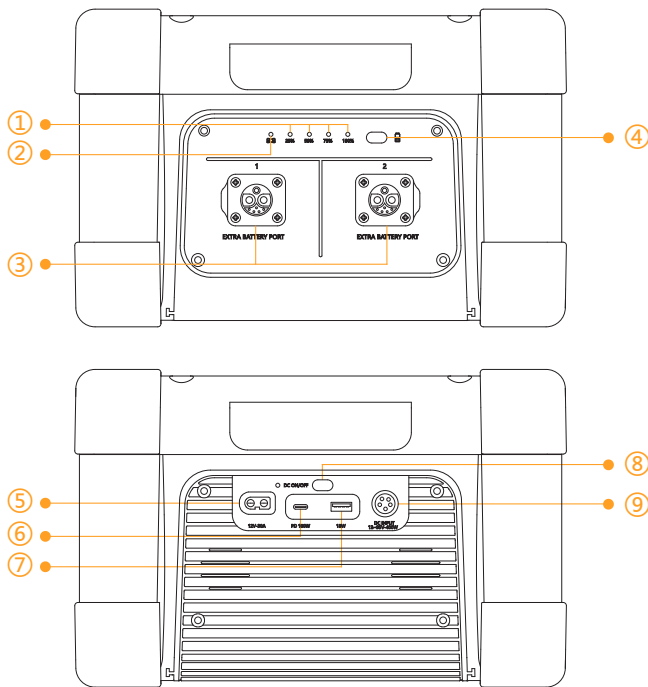


USER MANUAL

Please read the user manual thoroughly before using







..... support@pecron.com

FUNCTION INTRODUCTION






- ① LED Capacity Indicator
- ② Indicator Under Cascade Status
- ③ Battery Expansion Port
- ④ Power Display Switch
- ⑤ DC12V XT60 Output
- ⑥ USB-C Ports
- ⑦ USB-A Ports
- ⑧ DC Button
- ⑨ DC 12V~95V Charging Port


SPECIFICATIONS

					
Capacity	Battery Type	Protections	Temperature	Dimension	Net Weight
3072Wh (25.6V120Ah)	LiFePO4 Battery Retain 80%+ Original Capacity At 3500 Cycles	Over-Voltage, Overheat, Overload, Short-Circuit, Self-Recovery	0°C~45°C/32°F~113°F (Charging) -20°C~45°C/-4°F~113°F (Discharging)	L17.3*W12.2*H7.8 in L441*W312*H200 mm	Around 57lb Around 26kg



OUTPUT SPECS

		
XT60 Output*1	USB-A*1	USB-C*1
DC 12V-30A	(5V,9V,12V, Max 18W)*1	(5V,9V,12V,20V, Max 100W)*1









INPUT SPECS


GX16MF-5*1
DC Charging(12V~95V) Max 400W

CASCADE FUNCTION

	
Port For Cascade *2	
It can be connected with devices that come with DC 24V cascade port.	

PACKING LIST

			
<p>pecron EB3000-24V *1</p>	<p>Cable from XT60 to Cigar port and 5525 port *1</p>	<p>MC4 Solar Charging Cable(LSMC4-5GX16) *1</p>	<p>M25 Cascade cable *1</p>
			
<p>Solar Cable with 5521 Connector *1</p>	<p>Anderson Solar Charging Cable *1</p>	<p>Car charge cable with GX16MF-5 connector *1</p>	<p>12V Alligator Clips *1</p>

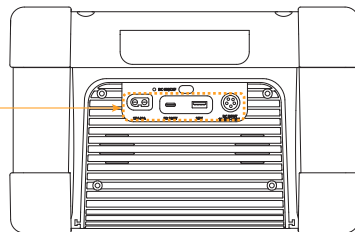
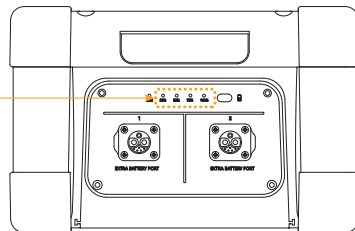
HOW TO USE THE EB3000-24V



Light press to show battery capacity



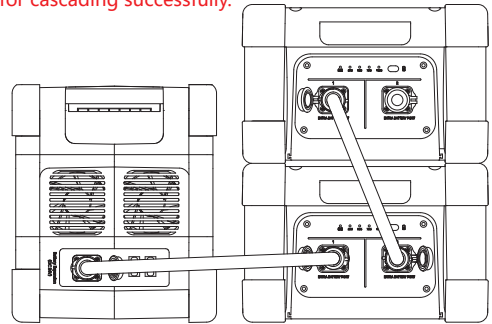
Long press to turn on/off DC (USB/XT60 12V)



**⚠ Note: Operating temperature range of EB3000-24V is -20~45°C.
If the operating temperature is not within this range, it will fail to work.**

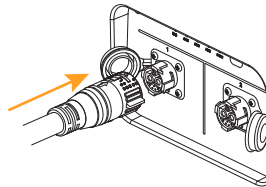
HOW TO CONNECT EB3000-24V WITH E2000 LFP IN CASCADE

- 1: First confirm battery volume for both EB3000-24V and E2000 LFP and ensure their volume difference is no more than 10%. **If the difference is too large, it will take longer time for cascading successfully.**
- 2: Connect the E2000LFP with the port "1" on EB3000-24V with a 24V cascade connecting cable. (If you want to connect two external battery pack, you can connect the port "2" on the first battery pack to the port "1" on the second battery pack) **as shown on the right:**
- 3: After the connection is completed, When the indicator shows red, it means that the power discrepancy is too large, and the battery is being balanced at this time (**reducing the battery difference between E2000 LFP and extra battery pack before cascading can reduce the equalization time**).
When the display light is green, it means that the cascade is successful and can be used normally.

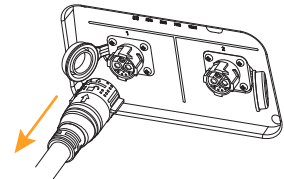
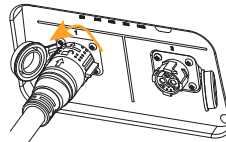


HOW TO USE THE CASCADE CABLE

Insert the cascading cable: the side with the arrow is facing up, push it inwards according to the hole, and insert it in place when you hear a "click".



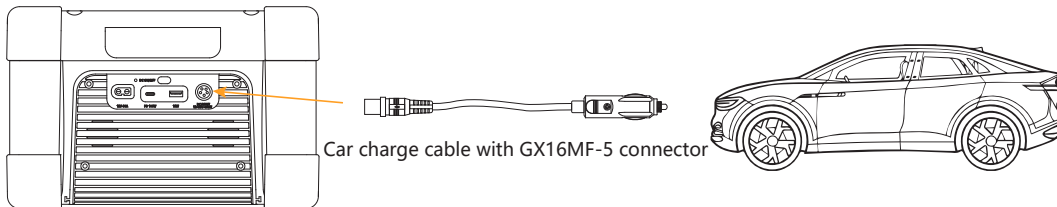
Pull out the cascading cable: hold the protrusions on both sides and turn to the left, then pull out at the same time.







CONSIDERATIONS DURING CASCADING PROCESS

- 1: Protection may be triggered while you are using high power (higher than 1600W) for a long time (over 1.5 hours) under high temperature. In order to meet your needs, please replace with a high-current fuse.
- 2: After the host is cascaded with the extra battery pack, there will be some deviations in the display.
- 3: During charging, battery capacity is subject to the expandable battery pack.
- 4: After disconnecting the power station with expandable battery pack, please fully charge the E2000 LFP (the charger shows green light), and then use it after calibration.

HOW TO CHARGE THE EB3000-24V BATTERY PACK BY VEHICLE



RECHARGE TIME

 Charged by adapter	 Electric Generator	 Car Charger	 Use E2000 LFP to charge EB3000 battery pack
8~9Hours	Around 8~9Hours	Around 30Hours	Charging time for 1pcs of EB3000-24V and E2000LFP is 3.5 hours; Charging time for 2pcs of EB3000-24V and E2000LFP is 5 hours;

SOLAR CHARGE TIME



pecron 200W



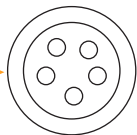
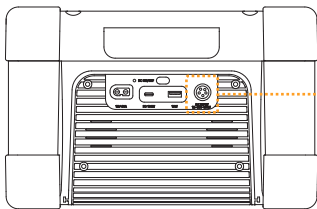
MC4 Solar Charging Cable

200W(×1) Recommended ★★★	400W(×2) Recommended ★★★★★
19~20 Hours	10~11 Hours

Note: The above data comes from Pecron 's laboratory. Actual charging time depends on the weather conditions.

USING SOLAR PANELS TO CHARGE THE EB3000-24V

GX16MF-5 Charging Port: PV(operating voltage) range 12V~95V, 400W maximum; VOC(open circuit voltage) of solar panel/array must be less than 95V, otherwise, it will damage the unit! Do not wire more than two 36V(AKA 24V) solar panels in series.(18V~36V stands for V_{mp} , the operating voltage, of the solar panel)



DC INPUT
12~95V-400W

GX16MF-5 Charging Port:
PV12~95V-400W Maximum Input

USING SOLAR PANELS TO CHARGE THE EB3000-24V

Using the pecron 100W /18V*1 (100W) to charge the EB3000-24V



pecron 100W

18V



DC INPUT
12~95V-400W



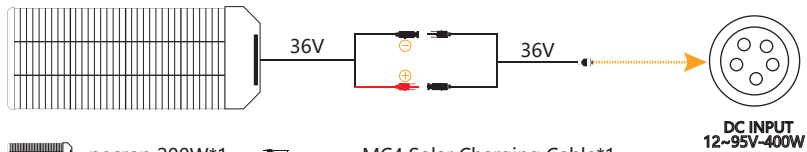
pecron 100W*1



Solar charge cable with 5521 connector*1

※ 18V is the operating voltage of the solar panels

Using the pecron 200W /36V*1 (200W) to charge the EB3000-24V

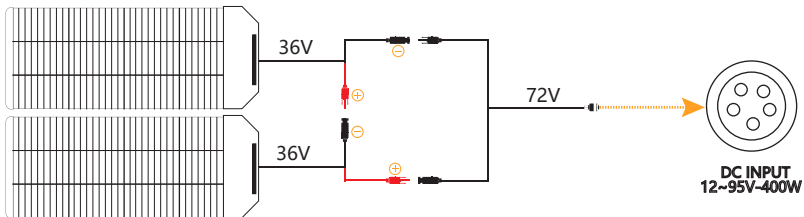


pecron 200W*1

MC4 Solar Charging Cable*1

※ 36V is the operating voltage of the solar panels

Using the pecron 200W /36V*2 (400W) to charge the EB3000-24V



pecron 200W*2

MC4 Solar Charging Cable*1

※ 36V is the operating voltage of the solar panels

FAQS

Q1: What kind of battery is used in EB3000-24V?

A: EB3000-24V utilizes high quality UL certified automotive LiFePO4 battery.

Q2: Which models can the EB3000-24V be cascaded to?

A: At present, EB3000-24V expandable battery pack can be cascaded to the devices with 24V cascade port.

Q3: Can the EB3000-24V be charged or discharged separately after cascaded?

A: Yes, but the charging/discharge power will not be shown on the display of E2000 LFP and this will lead to wrong battery volume showed on the battery display.

Q4: How to calculate the EB3000-24V running time?

A: Running Time=Total Capacity(3072Wh) * 0.85 (Depth of Discharge)/Loading Power(Watts)

Q5: Does EB3000-24V have built-in MPPT controller?

A: Yes, EB3000-24V has a built-in MPPT charge controller, which supports 12V-95V(max 400W).

Q6: Why does the battery capacity of the E2000 LFP vary after cascading with the expandable battery packs?

A: After cascading, the battery capacity of the expandable battery pack will be balanced with that of E2000 LFP, which leads to the showing of inaccurate battery capacity during this process.

Q7: How many EB3000-24V battery packs can be cascaded to E2000 LFP?

A: It can only cascade with 2 * EB3000-24V. If you cascade with more than 2 battery pack, the resistance and voltage difference between main power station and cascade battery pack will be enlarged which will affect work properly.

Q8: How to store the EB3000-24V?

A: Please turn off the unit and then store it in a dry, ventilated place at normal room temperature. Do not place this unit near water sources or a wet/moist environment. For long-term storage, it is recommended to discharge the battery to 30% every three months and recharge it to 60% to prolong the battery life.

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 the device near heat source, such as a fire or a heating furnace.
- 2、 Do not immerse in any liquid, or expose the unit to rain or wet conditions.
- 3、 Do not use the battery in a strong static electricity or electromagnetic environment.
- 4、 Do not disassemble or puncture the product with sharp objects in any way.
- 5、 Short circuits can be caused by: vermin or pests chewing through wires; water or other fluids coming into contact with electrical wiring.
- 6、 It's prohibited to be used as car jump starter, only can be used to charge the car battery.
- 7、 Do not use accessories or parts other than those provided by Pecron. Please visit our website www.pecron.com or reach our support team for a complete list of accessories and parts.
- 8、 When using this product, please strictly follow the ambient temperature for use in the user manual. If the temperature is too high, the battery can potentially result in self-combustion and will burst into flames, which can cause widespread damage. If the temperature is too low, the performance of the battery will be seriously degraded, and it may even fail to meet the normal use requirements.
- 9、 Do not stack heavy objects on this product.
- 10、 Do not block the air vents during use, or leave the device in a non-ventilated or dusty space.
- 11、 Please avoid impacts, fall off, and violent vibration. Please turn off the device immediately and stop using it in the event of major exterior impact. Please fasten the unit firmly during transportation to avoid vibration and impact.
- 12、 In the event of immersing the device into the water accidentally, please place the unit in a safe open area and keep away from the unit until it is completely dry. The dried unit should not be reused and should be disposed of properly according to the local regulation. If the device catches fire, use the fire extinguishing equipment in the following recommended order: water or mist, sand, fire blanket, dry chemical, carbon dioxide fire extinguisher.
- 13、 Please wipe it with a dry cloth to clean the surface of the device.

14. Please place this device with care to prevent the product from being damaged due to fall off. If the product is damaged due to fall off, please turn off the unit immediately and place it in an open area, keep away from combustibles and crowds, and dispose of in accordance with local laws and regulations.
15. Please store this device in a place out of reach of children and pets.

DISPOSAL

1. When conditions permit, please be sure to completely discharge the battery of this product, and then put the product in the designated battery recycling box. This product contains batteries. Batteries are dangerous chemicals and are strictly prohibited from being disposed of in ordinary trash. For details, please follow local laws and regulations on battery recycling and disposal.
2. If the battery cannot be completely discharged due to the failure of the product itself, please do not dispose of the battery directly in the battery recycling box, and contact a professional battery recycling company for further disposal.
3. The battery will not be able to start after being over-discharged, please dispose of it according to the principle of disposal.

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.

CUSTOMER SUPPORT: support@pecron.com

WEBSITE: www.pecron.com

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