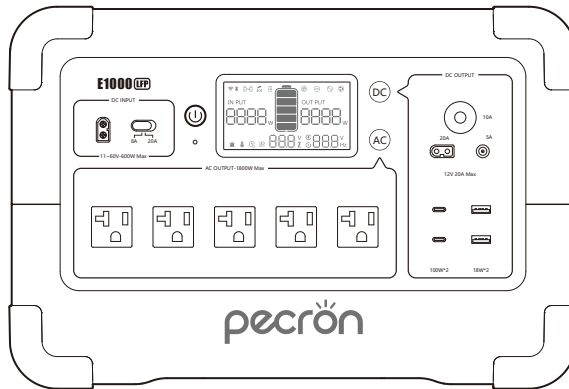




# E1000 LFP

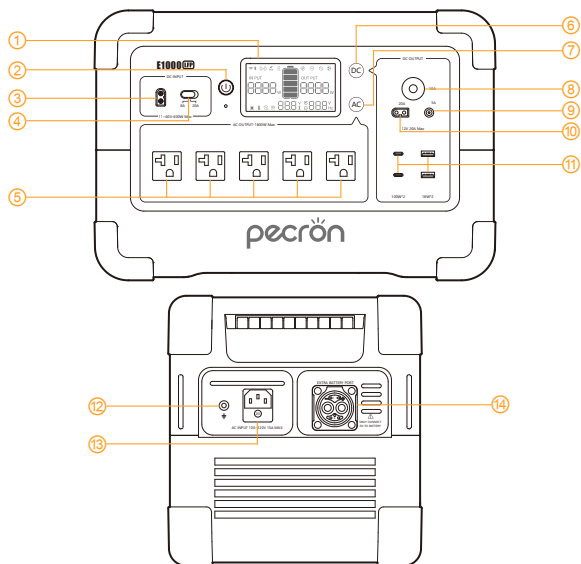


## USER MANUAL

Please read the user manual thoroughly before using

[support@pecron.com](mailto:support@pecron.com)

# FUNCTION INTRODUCTION



① LCD Display

② Main Switch

③ DC 11V~60V Charging Port

④ Adjustment Button of DC Charging Port

⑤ AC 100V~120V Output

⑥ DC 12V / USB Switch

⑦ AC 100V~120V Switch

⑧ DC12V Auxiliary Output

⑨ DC12V(5525) Output

⑩ DC12V XT60 Output






⑪ USB-A / USB-C Ports







⑫ External Grounding Port

⑬ AC 100V~120V Charging Port

⑭ Battery Expansion Port

# SPECIFICATIONS

GENERAL INFO			
 Capacity	1024Wh(51.2V20Ah)	 Temperature	0°C~45°C/32°F~113°F (Charging) -20°C~45°C/-4°F~113°F (Discharging)
 Battery Type	LiFePO4 (3500+Cycles to 80%)	 Dimension	L14.9*W9.4*H10 in L378*W239*H255 mm
 Net Weight	Around 29lb Around 13.5Kg		

DC OUTPUT		
	USB-A *2	(5V,9V,12V, Max 18W)*2
	USB-C *2	(5V,9V,12V,20V, Max 100W)*2
	XT60 Output *1	DC 12V-20A
	Cigar Port *1	DC 12V-10A
	DC 5525 Output *1	DC 12V-5A
280W Max		
AC OUTPUT		
	BS-U20 *5	Pure sine wave 100V~120V Rated 1800W Max

### AC INPUT



AC INLET \*1

100Vac~120Vac 50/60HZ  
15A Max

### DC INPUT



XT60 \*1

11V~60V  
600W Max 20A Max

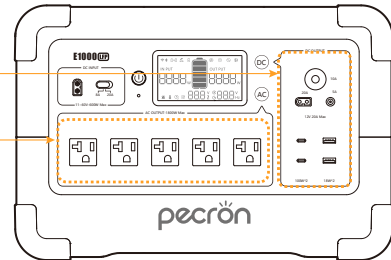
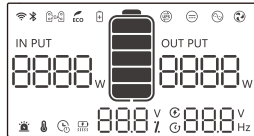
### EXTRA BATTERY PORT



MJ32 \*1

48V, 20A MAX

## HOW TO USE THE E1000 LFP



Short press to turn on, long press to turn off, short press to turn off the screen while working;

Press and hold to turn on / off DC / USB;

Press and hold to turn on / off AC;

Charging current adjustable during 12-30Vdc;

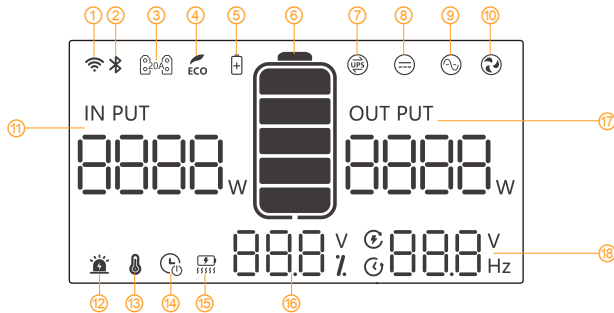
(Please turn off the AC function if there is no AC load on the unit)

Note: Long press the AC+DC to reset WIFI and enter pairing mode;

Long press the main switch+DC to activate ECO mode;

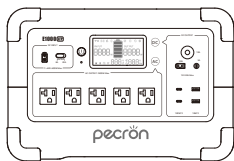


## DETAILS AND OPERATING INSTRUCTIONS OF THE DISPLAY

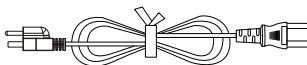


- |   |                                       |
|---|---------------------------------------|
| ① WIFI Connection                         | ⑩ Fan Working                         |
| ② Bluetooth Connection                    | ⑪ AC/DC Input Wattage                 |
| ③ Current Switching Button of DC Charging | ⑫ Equipment Alarm                     |
| ④ ECO Mode                                | ⑬ Temperature Alarm                   |
| ⑤ Connection Of Expansion Battery Pack    | ⑭ Timer Switch On                     |
| ⑥ Battery Level                           | ⑮ Battery heating has been turned on  |
| ⑦ UPS Function                            | ⑯ Battery Volume(voltage)             |
| ⑧ DC Output/Input                         | ⑰ AC/DC Output Wattage                |
| ⑨ AC Output/Input                         | ⑱ Remaining Hours Of Charge/Discharge |

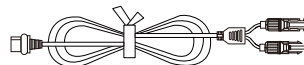
## PACKING LIST



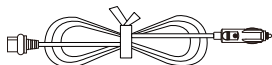
PECRON E1000 LFP \*1



AC Cable \*1



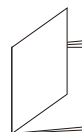
Single port XT60 to  
MC4 solar charging cable \*1



Cigarette lighter male head  
to car charging cable XT60 \* 1



Accessory bag \* 1



User Instruction \*1

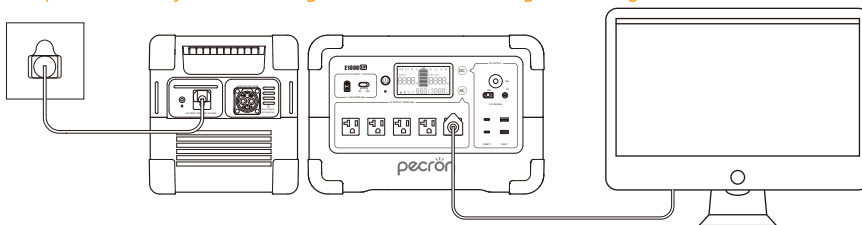
## UPS FUNCTION

The E1000 LFP supports UPS function. It can provide the loads(such as computers, data centers, telecommunication equipment) near-instantaneous(within 8~20ms) protection from unexpected power interruptions of the main power supply.

Note: Not applicable to specific applications that need transfer time under 8ms, such as servers and workstations.

This UPS function only support protection for loads under 1800W(120V), we recommend that you only connect one device at a time to avoid overload and thus result in protection failure.

**PECRON is not responsible for any devices damage or loss of data resulting from failing to follow the instructions.**

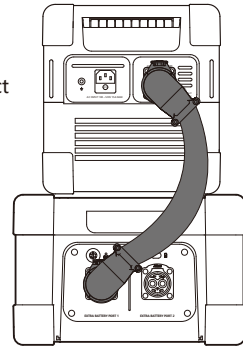


## EXPANDABLE BATTERY

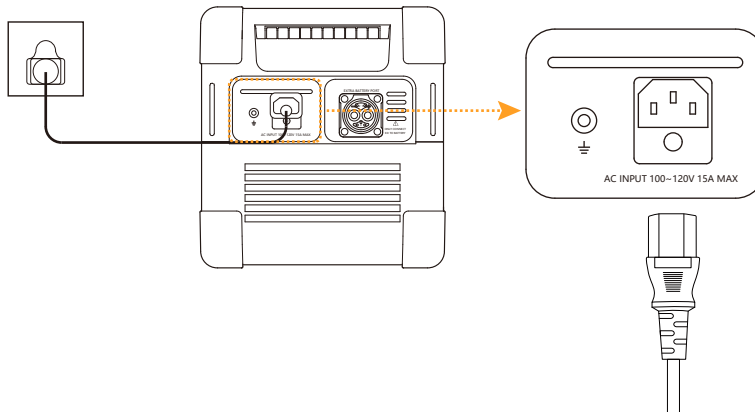
Please use the official cascading cable with MJ32 socket when you want to connect with 1 pcs of expansion battery pack (EP3000-48V) to avoid damage of the power station.

Notes about cascade:

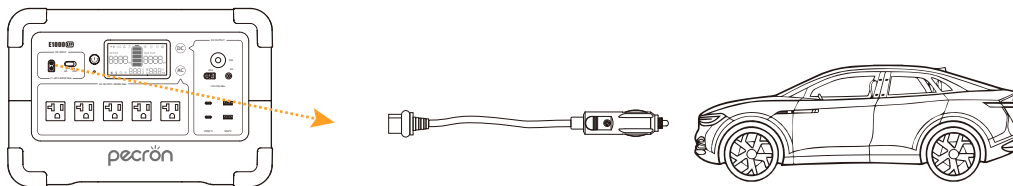
Cascading will be faster if there is only 10% difference between the main power station and the expansion battery pack.



## HOW TO CHARGE THE E1000 LFP BY AC ?

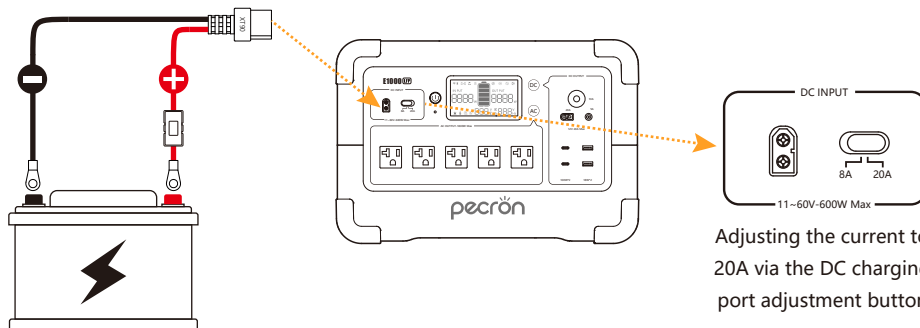


## HOW TO CHARGE THE E1000 LFP BY VEHICLE ?



Attention: Do not adjust to 20A for use when using car charging because the car cigarette lighter plug cannot hold 20A current!

## HOW TO CHARGE E1000 LFP BY USING STORAGE BATTERY

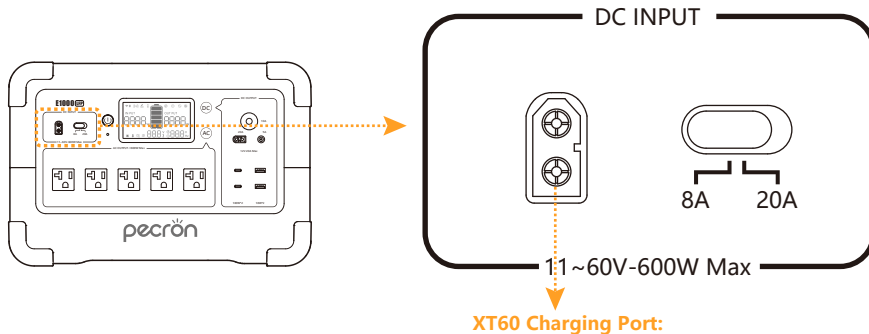


Adjusting the current to 20A via the DC charging port adjustment button.

Note: This spare part requires additional purchase.

## USING SOLAR PANELS TO CHARGE THE E1000 LFP

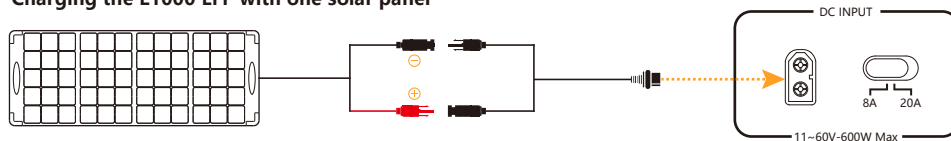
**XT60 Charging Port:** PV(operating voltage) range 11V~60V, 600W maximum; VOC(open circuit voltage) of solar panel/array must be less than 60V, otherwise, it will damage the unit! Do not wire more than two 36V solar panels in series, or more than four 18V solar panels in series. (18V/36V stands for Vmp of the solar panel)



PV11V~60V-600W Maximum Input

## USING SOLAR PANELS TO CHARGE THE E1000 LFP

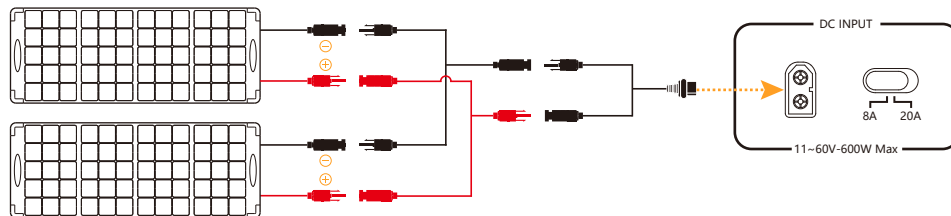
### Charging the E1000 LFP with one solar panel



MC4 Solar Charging Cable \*1

※ It is recommended to choose PECRON solar panels for optimal user experience! The VOC of a single solar panel should be less than 60V, and the VMP should be greater than 11V.

### Use two solar panels in parallel to charge the E1000 LFP



MC4 Solar Charging Cable\*1

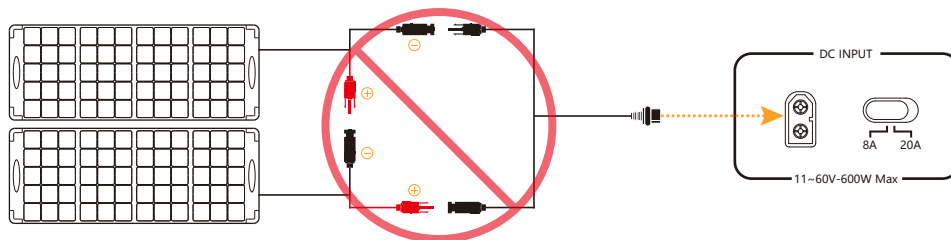
Y Branch MC4 Charging Cable(+)\*1

Y Branch MC4 Charging Cable(-)\*1

(NOTE: This parallel charging cable sold separately)

※ It is recommended to choose PECRON solar panels for optimal user experience! The VOC of a single solar panel should be less than 60V, and the VMP should be greater than 11V.

### DO NOT WIRE TWO SOLAR PANELS IN SERIES!



※ PV(XT60) Port Only work within 12V~60V Open Circuit voltage, exceeding 60V will damage the machine.

## FAQS

### 1: What kind of battery is used in E1000 LFP? How long it can last?

E1000 LFP utilizes high quality UL certified automotive LiFePO4 battery, it can retain 80% of its original capacity at 3500 complete charge cycles.

### 2: What devices can E1000 LFP power?

Please note that the AC output port can only charge or power devices that operate at less than 1800W.  
DC output port can only charge or power that operate at less than 12V-20A.

### 3: Can the E1000 LFP be used as UPS?

E1000 LFP supports UPS function with an automatic switchover time of 8~20ms.

### 4: How to calculate the E1000 LFP running time?

To estimate the operation time of the E1000 LFP, consider the load you're applying:

Operation time = Battery Capacity (Wh) x DoD x  $\eta$  ÷ (Load Power + E1000 LFP Self-con-sumption)

Note: DoD refers to the depth of discharge. E1000 LFP works at 95% DoD for longer battery life.  $\eta$  is the conversion efficiency of the inverter, typically over 93% for E1000 LFP. The self-consumption of E1000 LFP is approximately 12W. E.g. If you have a 40W refrigerator, you can run it for about 34.7 hours.

Operation time =  $1024\text{Wh} \times 95\% \times 93\% \div (40\text{W} + 12\text{W}) \approx 17$  hours.

Please keep in mind that the estimated operation time provided is for reference purposes and may vary based on actual usage conditions. Factors such as low temperature and excessive loads can significantly affect the battery capacity, leading to a reduction in the average operation time.

### 5: Does E1000 LFP have built-in MPPT charge controller?

Yes, there is one independent built-in MPPT controller; "XT60" port supports 11~60V(Max 600W) PV input.

### 6: Can the E1000 LFP be charged while discharging?

Yes, It can be charged and discharged at the same time. Under the non-UPS state, if uninterrupted use is required, the average power of charging must be greater than the average power of electricity, otherwise the battery will eventually run out and shut down.

### 7: How to store the E1000 LFP?

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 sustain the battery life.

#### 8: 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.)

## 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](http://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](mailto:support@pecron.com)**

WEBSITE: [www.pecron.com](http://www.pecron.com)



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