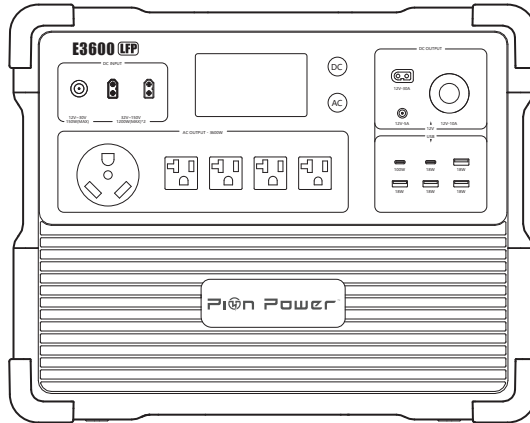


# Pion Power™

## E3600 LFP

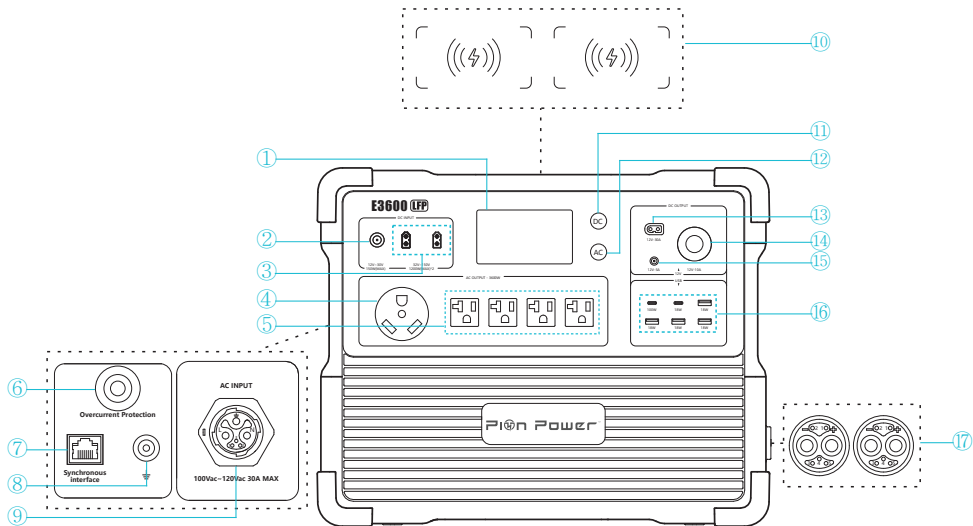


## USER MANUAL

Please read the user manual thoroughly before using

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

# PRODUCT OVERVIEW









- ① IPS Touch Screen
- ② DC 5521 Charging Port \*1
- ③ XT60-M charging ports\*2
- ④ NEMA TT-30R socket \*1
- ⑤ NEMA 5-20R \*4
- ⑥ Overcurrent Protection
- ⑦ RJ45 Signal Sync Interface
- ⑧ External Grounding Port
- ⑨ MJ25 (3+2) Charging Port\*1
- ⑩ Wireless Charger
- ⑪ DC 12V/USB/ Wireless Switch Button
- ⑫ AC Power Button
- ⑬ DC12V XT60 port\*1
- ⑭ Car Socket \*1
- ⑮ DC5525 Port\*1
- ⑯ USB-A\*4, USB-C\*2
- ⑰ Battery Expansion Port



# SPECIFICATIONS

Capacity	3072Wh (51.2V/60Ah)	UPS Power	100Vac~120Vac, 30A Max
Battery Type	LiFePO4 (3500+ Cycles to 80%)	Rated Power	3600W
AC Input	100Vac-120Vac, 30A Max, 3200W Max	Peak Power	7200W when 2 units are connected
Solar Input	DC5521: Voc 12V~30V / 150W Max / 7A Max 2*XT60-M: Voc 32V~150V / 1200W Max / 20A Max (2400W max)	Smart App	Wi-Fi, Bluetooth
Car Input	12Vdc~30Vdc, 150W Max, 7A Max	Weight	About 36KG / 79.2lbs
Charging Time	1.3 Hours - 30A AC Cable 2 Hours - 15A AC Cable	Size	L441xW312xH350mm / L17.3xW12.2xH11.5in
Temperature	0°C~45°C / 32°F-113°F(Charging) -20°C~45°C / -4°F-113°F(Discharging)		


## DC OUTPUT

	USB-A *4	(5V,9V,12V,Max 18W)*4	360W Max
	USB-C *2	(5V,9V,12V,Max 18W)*1 (5V,9V,12V,20V,Max 100W)*1	
	XT60-F Output *1	DC 12V-30A	
	Cigar Port *1	DC 12V-10A	
	DC 5525 Output *1	DC 12V-5A	
	Wireless Charger *2	15W Max	


## AC OUTPUT

	BS-U20 *4	Pure sine wave 100V~120V 50/60Hz Rated 3600W Max
	TT30-R *1	


### AC INPUT

 MJ25 (3+2) *1	100Vac~120Vac 50/60HZ 1800W Max (Charging cable with 15A) 3200W Max (Charging cable with 30A)
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### DC INPUT

 5521 *1	12V~30V Max 7A Max 150W
 XT60-M *2	32V~150V Max 20A Max 1200W*2

### EXTRA BATTERY PORT

 MJ32 *2	Cascade with max 4 pieces of EP3000-48V
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## HOW TO TURN ON/OFF DC/USB/WIRELESS CHARGER



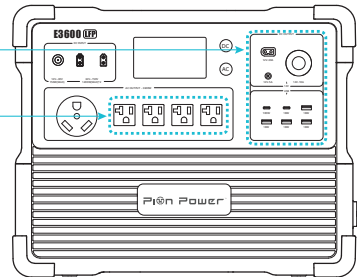
DC

AC

 press and hold to turn on / off DC / USB / Wireless Charger

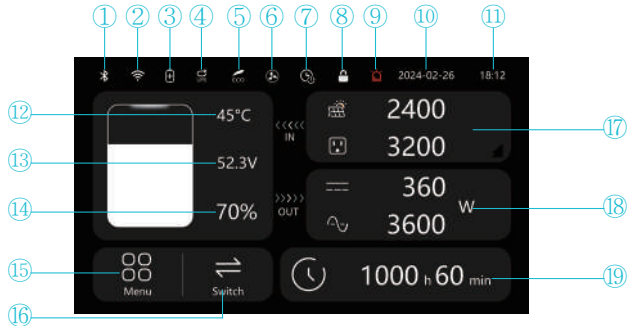
 press and hold to turn on / off AC

Turn off AC function if there is no AC load



# DETAILS AND OPERATING INSTRUCTIONS OF THE TOUCH SCREEN

## Home page 1



- ① Bluetooth Connection
- ② WiFi Connection
- ③ Connection of Expansion Battery Pack
- ④ UPS On
- ⑤ ECO On

- ⑥ FANS On
- ⑦ Timer Switch On
- ⑧ Touchscreen Lock
- ⑨ Warning
- ⑩ Date

- ⑪ Time
- ⑫ Battery Temperature
- ⑬ Battery Voltage
- ⑭ Battery Volume Percentage
- ⑮ Menu

- ⑯ Switch Button
- ⑰ Display of Input
- ⑱ Display of Output
- ⑲ Remaining Discharge Time /Remaining Charge Time

## Home page 2

Remaining volume of the main power station

Remaining volume of the expansion battery pack

Equilibrium state of the main power station and expansion battery pack

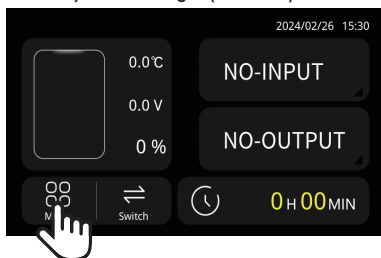
Disconnection of the main power station and expansion battery pack



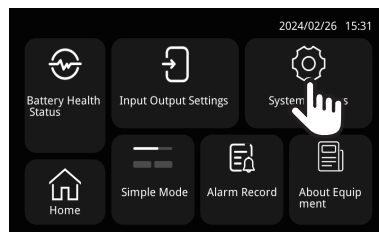
# HOW TO SET UP THE TIME AND LANGUAGE OF THE SCREEN ?

Click "Menu" (Picture 1).

Then click "System Settings" (Picture 2).



(Picture 1)



(Picture 2)

1: Page up/down by clicking "▲"/"▼" on the left side.

2: Adjust the time by clicking "Time setting" (Picture 3).



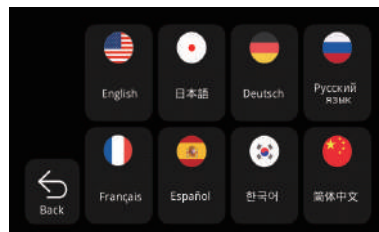
(Picture 3)



3: Adjust the language by clicking "Language" (Picture 4).



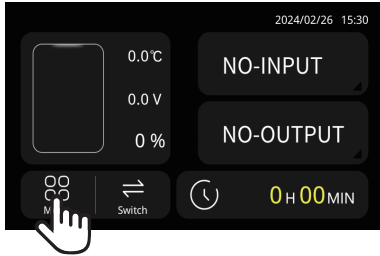
(Picture 4)



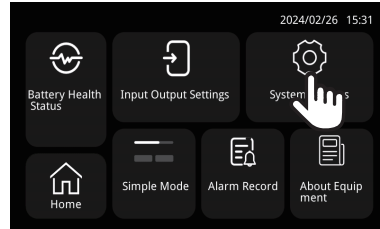
# HOW TO CONNECT WITH THE APP ?

Click "Menu" (Picture 1).

Then click "System Settings" (Picture 2).



(Picture 1)



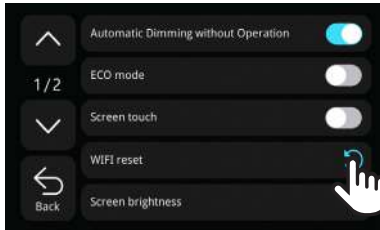
(Picture 2)

1: Click "WiFi reset" (Picture 5).

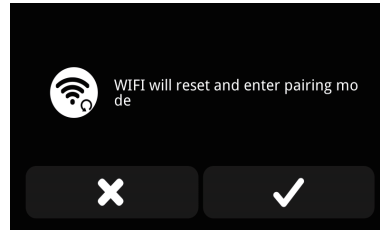
2: Click "✓" to reset the WiFi and enter into the pairing mode (Picture 6).

Search for the device model on the app.

If you connect the App with WiFi successfully, the WiFi icon will be displayed.



(Picture 5)



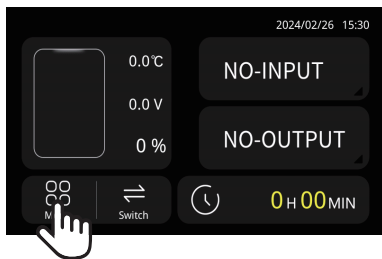
(Picture 6)

Check [www.pionpowertech.com](http://www.pionpowertech.com) for more information

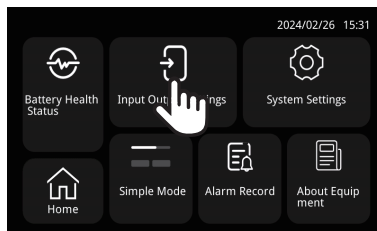
# HOW TO CHANGE THE SETTINGS OF INPUT AND OUTPUT ?

Click "Menu" (Picture 1).

Then click "Input Output Settings" (Picture 7).



(Picture 1)



(Picture 7)

Click each option to make the corresponding settings (Picture 8).

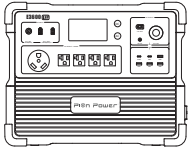


(Picture 8)



# PACKING LIST

## Standard Product List



PION POWER E3600 LFP \*1



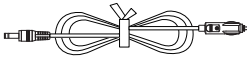
15A AC cable \*1 (NEMA 5-15P)



Single port XT60 to  
MC4 solar charging cable \*1



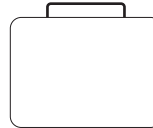
Parallel dual port XT60 to  
MC4 solar charging cable \*1



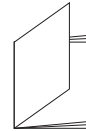
Car Charging Cable \*1



Slotted Screwdriver \*1



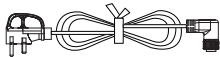
Accessory Pouch \*1



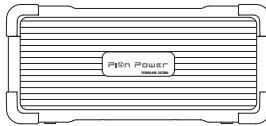
User Manual \*1

## Optional product accessory

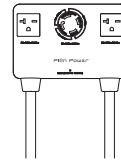
(\* The following accessories are not included in the standard package and can be purchased separately from PION POWER)



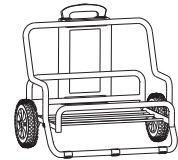
30A AC Cable \*1 (NEMA TT-30)



EP3000-48V



Completed set for  
series connection to 240V



T2 Trolley

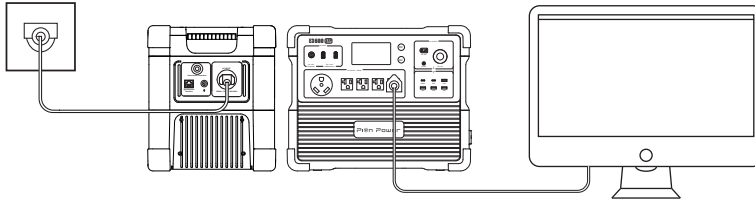
## UPS FUNCTION

The E3600 LFP supports an UPS function with an automatic switchover time of 8~20ms. It provides near-instantaneous protection from unexpected power interruptions for loads up to 3600W (120V)

**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 3600W(120V), we recommend that you only connect one device at a time to avoid overload and thus result in protection failure.**

PION POWER is not responsible for any devices damage or loss of data resulting from failure to follow the instructions.



## EXPANDABLE BATTERY

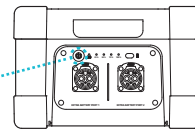
Please use the official cascading cable with an MJ32 socket when connecting to four expansion battery packs (EP3000-48V) to avoid damage to the power station.

Notes about cascade:

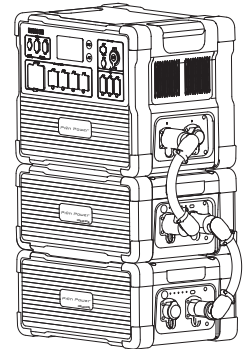
1. Cascading will be faster if there is only a 10% difference between the main power station and the expansion battery pack.
2. Before cascading, please make sure the number on the knob of the battery pack is unique. The number should be adjusted to 0,1,2,3 according to the number of packs. If the number is incorrect, the parameters of the packs will not be displayed on the main power station.
3. The unit with a higher charge will transfer power to the one with a lower charge. If the battery pack has a low charge level, the portable power station will charge the battery pack.
4. How to check the connection status of the battery pack?

There is an indicator light on the battery pack. If the green light is on, it means the battery pack is successfully connected.

Insert cascade cable with the "Push" button facing upwards.  
Push forward until hearing "click" sound



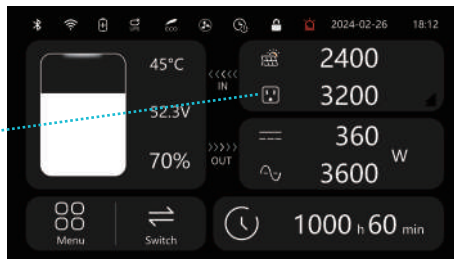
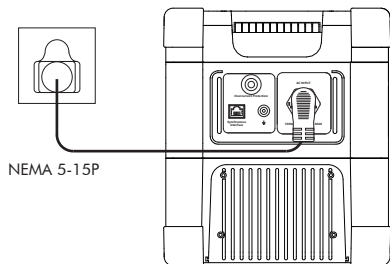
EP3000-48V



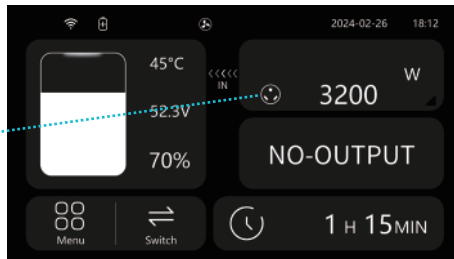
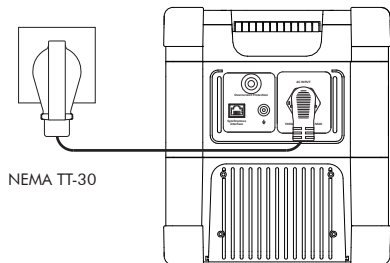
## HOW TO CHARGE THE E3600 LFP BY AC CHARGING ?

A 15A cable will be included as a standard accessory.  
The type of the cable will be automatically detected by the power station.

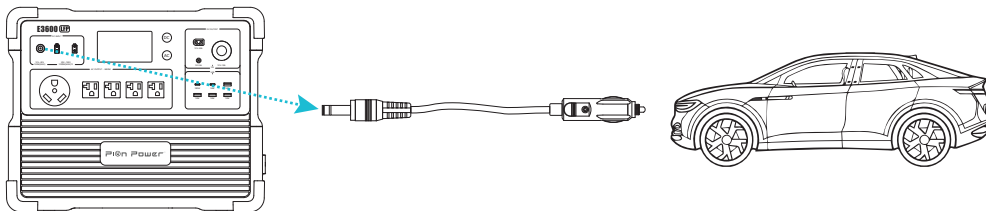
When you charge the power station with a 15A cable.



When you charge the power station with a 30A cable.



## CHARGING FROM THE VEHICLE



## SOLAR CHARGING

- DC5521 Charging Port:** Solar panel/car charger 12V~30V, supports up to 150W input.

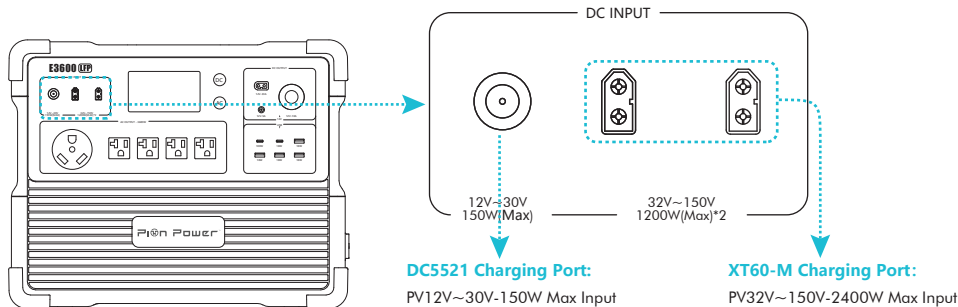
The open-circuit voltage of the solar panel must be less than 25V.

- XT60-M Charging Port:** Supports charging with a solar panel operating voltage in the range of 32V-150V, up to 2400W.

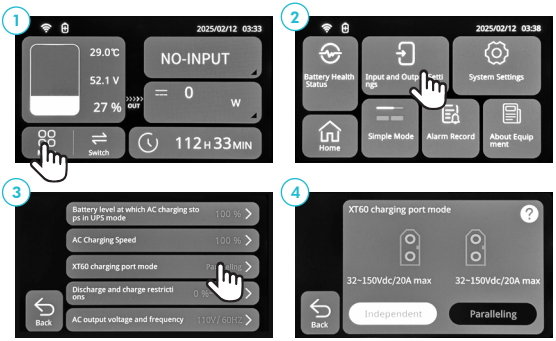
The open-circuit voltage of the solar panel must be less than 150V; otherwise, it will damage the product!

It is forbidden to use more than three 36V solar panels in series, or more than six 18V solar panels in series.

("18V" and "36V" refer to the operating voltage of the solar panels)



# SOLAR CHARGING



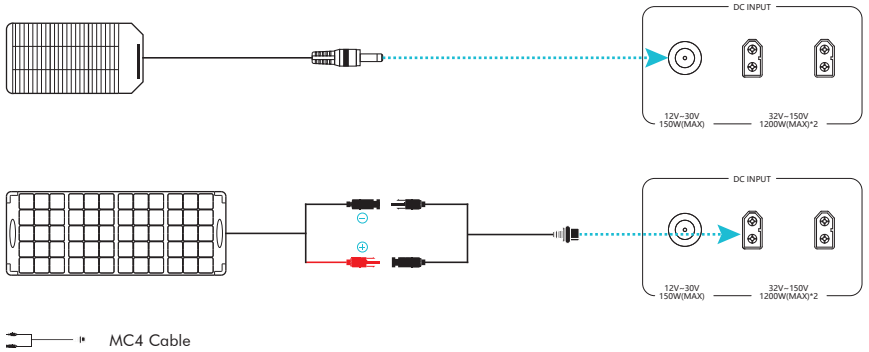
## In independent mode, using the XT60-MC4 solar charging cable:

The two XT60 charging ports are completely independent and can accept solar panel inputs with different power, voltage, and current. When using multiple solar panels with different specifications, it is recommended to use this mode to achieve maximum power charging.

## In parallel mode, using the dual XT60-MC4 solar charging cable:

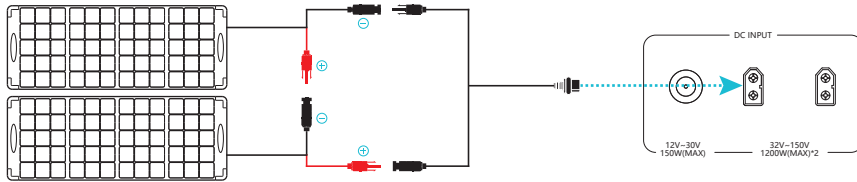
The two XT60 charging ports are combined and can accept larger current inputs. **When the combined current of the solar panels exceeds 20A, it is recommended to use this mode to achieve maximum power charging.**

### To charge the E3600 LFP with a single solar panel



※ We recommend using PION POWER solar panels for the best experience! The open-circuit voltage of a single solar panel should be less than 150V, and the operating voltage should be greater than 32V.

### To charge the E3600 LFP with two solar panels in series

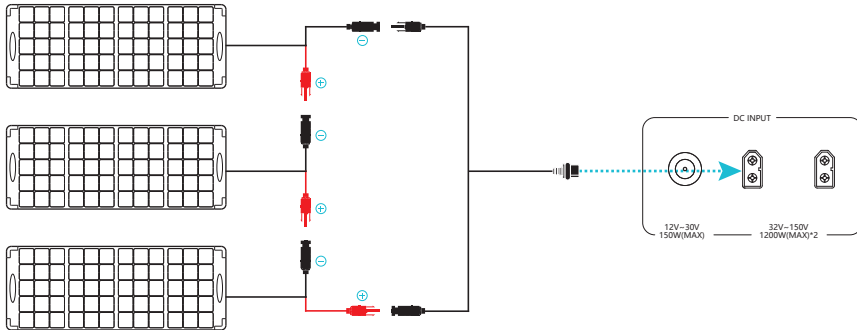


MC4 Cable

⚠ We recommend using PION POWER solar panels for the best experience! The open-circuit voltage of a single solar panel should be less than 75V, and the operating voltage should be greater than 16V.

### To charge the E3600 LFP using three solar panels in series

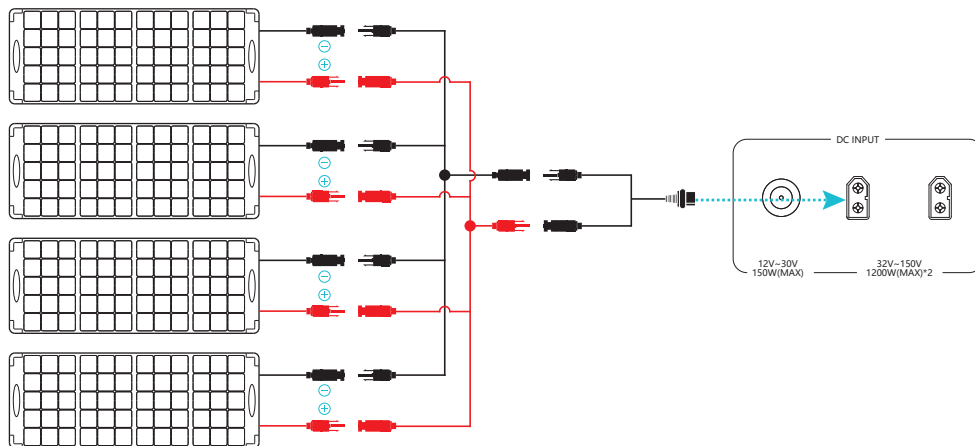
(it is recommended to use solar panels of the same specification and model for optimal power)



MC4 Cable

⚠ We recommend using PION POWER solar panels for the best experience! The open-circuit voltage of a single solar panel should be less than 50V, and the operating voltage should be greater than 11V.

**To charge the E3600 LFP with four solar panels  
(it is recommended to use solar panels of the same specification and model for optimal power)**



MC4 Cable \*1

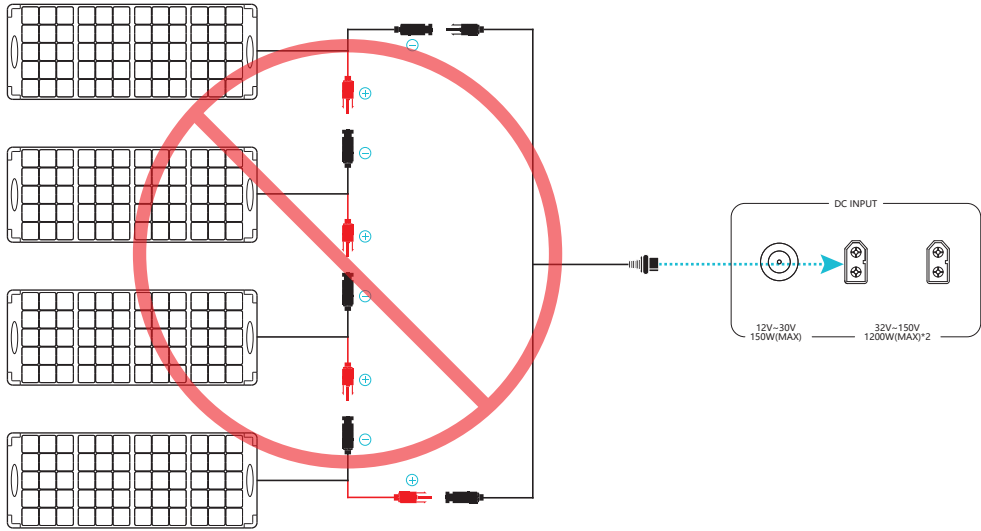
Y Branch MC4 Charging Cable(+)\*1

Y Branch MC4 Charging Cable(-)\*1

(NOTE: This parallel charging cable is sold separately)

※ We recommend using PION POWER solar panels for the best experience! The open-circuit voltage of a single solar panel should be less than 150V, and the operating voltage should be greater than 32V.

# DO NOT WIRE FOUR SOLAR PANELS IN SERIES!



※ PV(XT60) Port Only work within 32V~150V Open Circuit voltage, exceeding 150V will damage the machine.

## FAQS

**Q1: What kind of battery is used in the E3600 LFP? How long can it last?**

A: The E3600 LFP utilizes a high-quality UL-certified automotive LiFePO4 battery. It can retain 80% of its original capacity after 3500 complete charge cycles.

**Q2: What devices can the E3600 LFP power?**

A: The AC output port can charge or power devices that operate at less than 3600W. The DC output port can charge or power devices that operate at less than 12V-30A.



**Q3: Can the E3600 LFP be used as an UPS?**

A: Yes, the E3600 LFP supports an UPS function with an automatic switchover time of 8~20ms.

**Q4: Can the E3600 LFP be charged while discharging?**

A: Yes, the E3600 LFP can run devices while it is being charged. However, the battery will eventually run out if the discharging rate is greater than the charging rate during pass-through charging.

**Q5: How do you calculate the E3600 LFP running time?**

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

**Q6: Can I use the E3600 LFP indoors and charge it indoors?**

A: Yes, the E3600 LFP is safe to use and charge indoors.

**Q7: Does the E3600 LFP have a built-in MPPT charge controller?**

A: Yes, it has two independent 1200W (PV 32V-150V) MPPT charge controllers and one step-up 150W (PV 12V~30V) MPPT charge controller. The open-circuit voltage (Voc) of the solar panels should not exceed 150V.

**Q8: How should I store the E3600 LFP?**

A: Please turn off the unit and store it in a dry, ventilated place at normal room temperature. Do not place this unit near water sources or in 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.

**Q9: What is the maximum charging power for the portable power station, and how does it manage charging with both DC and AC sources simultaneously?**

A: The total charging power limit of the unit is 30A, with a maximum AC charging power of 3200W. When charging with both DC and AC simultaneously, DC charging is prioritized, and any remaining power needed to reach the maximum charging capacity is supplemented by AC charging.

## 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 setup, 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 Pion Power's current product literature.

In compliance with laws and regulations, Pion Power 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 a heat source, such as a fire or a heating furnace.
2. Do not immerse the unit in any liquid, or expose it 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, or by water or other fluids coming into contact with electrical wiring.
6. It is prohibited to use this product as a car jump starter; it can only be used to charge the car battery.
7. Do not use accessories or parts other than those provided by PION POWER. Please visit our website [www.pionpowertech.com](http://www.pionpowertech.com) or contact our support team for a complete list of accessories and parts.
8. When using this product, please strictly follow the ambient temperature guidelines in the user manual.  
If the temperature is too high, the battery can potentially self-combust and burst into flames, causing widespread damage.  
If the temperature is too low, the performance of the battery will be seriously degraded, and it may not meet 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. Avoid impacts, falls, and violent vibrations. If the device experiences a major exterior impact, turn it off immediately and stop using it. Secure the unit firmly during transportation to avoid vibration and impact.
12. If the device is accidentally immersed in water, place it in a safe, open area and keep away from it until it is completely dry. Do not reuse the dried unit; dispose of it properly according to local regulations. If the device catches fire, use fire extinguishing equipment in the following recommended order: water or mist, sand, fire blanket, dry chemical, carbon dioxide fire extinguisher.
13. Wipe the surface of the device with a dry cloth to clean it.
14. Handle this device with care to prevent damage from falls. If the product is damaged due to a fall, turn off the unit immediately, place it in an open area, keep it away from combustibles and crowds, and dispose of it in accordance with local laws and regulations.
15. Store this device out of reach of children and pets.
16. Recharge every 3–6 months if the unit is not in regular use to maintain battery health.

## 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

Pion Power's warranty does not apply to:

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

**CUSTOMER SUPPORT: [support@pionpowertech.com](mailto:support@pionpowertech.com)**

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



This product has passed inspection, meets the standards,  
and is approved for factory release.

## Product Qualification Certificate

Inspection Date: \_\_\_\_\_

Inspector: \_\_\_\_\_

### ONTARIO, CANADA

Address: 3761 Victoria Park Ave #9, Scarborough, ON M1W 3S2

Phone: +1 (416) 756-9210 Email: support@pionpowertech.com

<http://www.pionpowertech.com>