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# PORTABLE POWER STATION

## For Your Safety

Before use, read this manual carefully so that you understand its contents.  
Keep this manual so that you can refer to it at any time if necessary.

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# 1. SAFETY

Before using this product, please note the following to avoid damage to your electronic devices or dangerous situations. Check all input and output connections of your electronic devices. To avoid fire or electric shock, check all current ratings listed on this product and on the devices you intend to use.

- 1) This product contains a rechargeable lithium battery. Therefore, please handle with care when using, storing and delivering the product.
- 2) Charge the product only with a charger recommended by the manufacturer. Using a charger suitable for one type of battery/battery to charge another type of battery/battery may cause a fire.
- 3) Charge in a ventilated location. Do not place the product in water, -throw or -beat this product; this may damage the product internally.
- 4) Store this product and its accessories in a safe place, out of the reach of children. To avoid dangerous situations, do not expose the product to a source of ignition or other heat sources.
- 5) Do not touch the charging/discharging terminals with metal objects. If you do, a short circuit may occur and you may be injured.
- 6) If the product's fan is running, leave it running. Inadequate ventilation can lead to damage to the product. Do not place anything on the product, regardless of whether the product is in use or not.
- 7) Do not disassemble, crush or burn the product or expose it to temperatures higher than 40°C: risk of fire, explosion and burns.
- 8) Check the product for the presence of dirt, dust or moisture, on a regular basis.
- 9) This power station can supply the same life-threatening alternating current as a normal socket. Therefore, use it as carefully as a normal wall outlet.
- 10) Make sure that no dirt gets into the power connections or the vents.
- 11) In order to avoid dangerous situations, any repairs must be carried out by the manufacturer or an authorised repairer. Do not attempt to replace the internal battery.
- 12) Use the power station only with the battery pack specially developed for this product. When using other battery packs, there is a risk of injury or fire.
- 13) Do not charge the product for a long time when no one is around to intervene if a problem arises.

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## 2. GENERAL DESCRIPTION

This power station is made of rechargeable lithium battery, inverter circuit and a battery management system (BMS). The power station can be charged with alternating or direct current, coming from the main power source or a solar panel. The power station can provide your devices with AC or DC power in a practical, efficient and safe way, for use on the road, in the open air, at emergency medical stations or power outage.

### Applications

USB connection: smartphone, MP3 player, digital camera, tablet, e-reader, etc.

12V DC sockets (DC): LED lamp, etc.

12V DC lighter socket (DC): cool box in vehicle, 12V devices, etc.

AC connection (alternating current): electrical appliances such as televisions, laptops, etc.

\*Electric appliances which you intend to use must be less than the device's continuous output power.

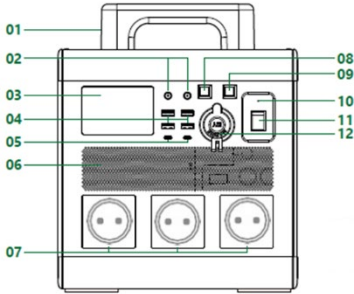
**(LP2000: 2000 W / LP3000: 3000 W)**

### 3. KEY FEATURES

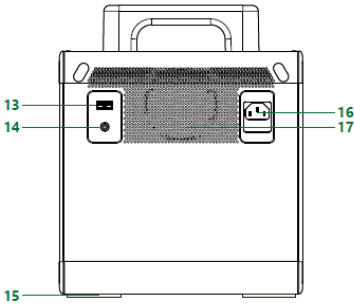
	LP2000	LP3000
Capacity	<b>25.6V 75 Ah 1920Wh</b>	<b>25.6V 120 Ah 3072Wh</b>
Battery type	<b>Rechargeable LiFePO4 battery</b>	
AC connection	<b>230 V, 50 Hz, pure sine wave (2 AC connections)</b>	
Continuous power	<b>2000 W</b>	<b>3000 W</b>
Peak power	<b>4000 W</b>	<b>6000 W</b>
DC connector	<b>4 USB Type A connectors / 2 USB Type C jack / 2 DC jacks / 1 Car lighter jack</b>	
USB Type A / USB Type C connector	<b>18 W max. / 100 W max.</b>	
12V DC socket	<b>12 V/5 A</b>	
12V DC lighter socket	<b>12 V/10 A</b>	
Charging methods	<b>AC adapter and solar panel (MPPT type)</b>	
Mains	<b>AC 230V, 50Hz, 500W</b>	<b>AC 230V, 50Hz, 1000W</b>
Solar panel	<b>Max. 500 W</b>	
Operating temperature	<b>0~45°C</b>	
Product dimensions (L x W x H, mm)	<b>405 x 250 x 250</b>	<b>500 x 250 x 250</b>
Weight	<b>23 kg</b>	<b>32.5 kg</b>

## 4. CONTROLS AND CONNECTIONS

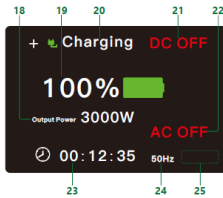
### FRONT



### BACK



### DISPLAY



1	Handle
2	12V DC Output
3	TFT Screen
4	USB-A
5	TYPE-C
6	Ventilation Hole
7	AC Output
8	AC Switch
9	DC Switch
10	Power Indicate Light
11	Power Switch
12	12V Car Lighter Output
13	Anderson Input
14	7909 Input
15	Floor Mat
16	AC Input
17	Cooling Fan
18	Output Power
19	SOC (State of Charge)
20	Charging Status
21	DC Output (DC ON)
22	AC Output (AC ON)
23	Charging / Output Power Remaining Time to Use
24	Hertz
25	Alarm

### Suitable plug types

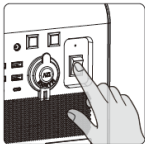


EUROPEAN

## 5. USE

### 1) Use of the power station

- a. Press power switch to turn on the power station, then LCD indicator will be launched.
- b. Press AC ON/OFF button to turn it on, AC ON character will display.
- c. Connect one end of the cable to the AC socket and the other end of it to your electric appliances after the AC function has been turned on for 3 seconds.
- d. Press AC ON/OFF button again to turn it off when you stop to use it, and the AC OFF character will display.
- e. Press DC ON/OFF button to turn it on, DC character will display.
- f. Connect one end of the cable to any DC port like USB-A, Type-C, DC round port or car cigarette port , and
- g. Connect the other end of cable to your mobile phone, Laptop, Drone or other digital electronic equipment.
- h. Press DC ON/OFF button again to turn it off when you stop to use it, and DC OFF character will display.



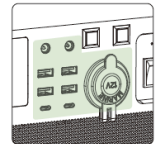
Turn on the power switch



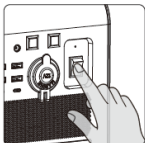
Turn on the DC output



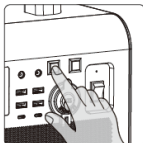
DC ON on the screen



DC outputs for charging electronics



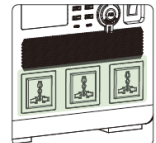
Turn on the power switch



Turn on the AC output



AC ON and pure sine wave displaying on the screen Outputs for charging the electronics



AC outputs for charging electronics

### How to know if your electronic devices will work with the power station?

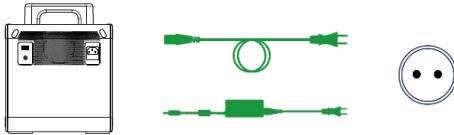
First, you need to determine the amount of power your electronic device requires. This may require some research by yourself, examining the user guide for your electronic device should suffice. Second, you will need to check the capacity for the individual output ports. For example, the AC port of the LP3000 is monitored by an inverter that allows for 3000W of continuous power. This means if your device is pulling more than 3000W for an extended period of time, the portable power supply will shut off.

### Please note:

1. When the power is lower than 0%, both AC and DC stop to work, turn off the power switch to protect batteries from being damaged by loss of power.
2. When the power is lower than or equal to 10%, the battery level symbol is turned to red from green.
3. When the state of charge of the battery pack reaches 5% or lower, the state of charge symbol flashes red.
4. If possible, keep your power station fully charged before long-term downtime. (Please fully recharge your power station in every 6 months at least for long-term usage)

2) Charging the power station

- a. Charging with the adapter or AC cable (Max charging power: LP2000 : 500W / LP3000 : 1000W ) Plug the charging cable into wall outlet, then connect the other side to the DC input port by the adapter or the AC port by the AC cable of the power station, you can see the charging state from the LCD display.

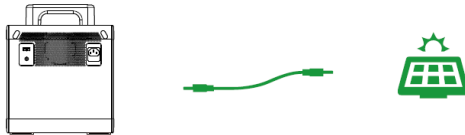


Charging from a wall outlet

- b. Charging with solar charger (Max charging power : LP2000 : 500W / LP3000 : 500W)

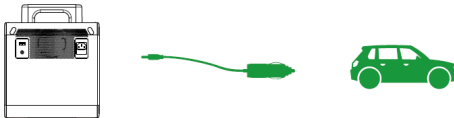
\* Solar charger is optional

1. Place your solar panel where it can get as much direct sunlight as possible.
2. Connect the solar panel by solar charging cable, then insert the plug of the cable into the DC Input port 2 on the back side of the portable power station. You can see the charging state from the LCD display.
3. It will stop charging when the battery is fully charged.



Solar panel

- c. Charging with car cigarette lighter port (120W) Plug the charging cable into the car cigarette lighter port, then connect the other side to the DC input port of the power station, you can see the charging state from the LCD display.



Car Lighter



 **Please note:**

1. Use a charger recommended by the producer when charging through a wall outlet.
2. For solar charging, use a solar charger that meets the following specifications:
  - a. DC: 12 - 30 V, Category "More than 200 W"
  - b. Type of charging: MPPT
  - c. Plug: DC-plug

3) Use of EC5 connection

- a. To be used to assist in starting a car (by supplying power to the car battery pack). However, before using this function, check that the charge state of the battery pack is at least 60%.
- b. Connect the jumper cables to the correct terminals.
- c. After connecting the jumper cables, press the power station on/off switch and press the DC ON/OFF button. The display will show DC ON. Wait about 10 minutes and then press the DC ON/OFF key again. Disconnect the jumper cables and try to start the car.

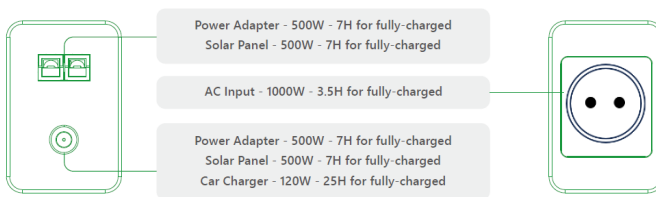
4) Alarm information description

- a. Overload

When the using output power is more than specific output power which the model can be applied, the alarm area will display "OVERLOAD". It is necessary to reduce the power of the electronic devices. If the AC output is turned off at this time, Press the AC ON/OFF button again and restart.

- b. High temperature

When the internal temperature is higher than 40 degrees Celsius or the output power is greater than 200W, the cooling fan starts to work. When the internal temperature is higher than 80 degrees Celsius, the temperature alarm starts. The AC and DC outputs are off and the alarm area shows "HI TEMP", which will stop working at once. You need to wait until the temperature drops below 40 degrees Celsius to restart.



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## 6. STORAGE AND MAINTENANCE

Failure to maintain your power station by following steps can result in battery damage.

1. Please charge your power station before storage and fully recharge it every 6 months at least. Store it in a cool and dry place.
2. If the main power supply shuts down automatically because of lower battery capacity, please recharge it within 3 months. Otherwise, the battery capacity won't be recovered.



**Please note:**

Cold temperatures (below freezing) can impact the battery capacity of the power station. If you are living in sub-zero conditions, you can drain power from it. Never charge it in the sub-zero conditions, which will damage the lithium-ion battery and battery capacity may not be recovered.



**Correct disposal of this product**

This pictogram indicates that this product should not be disposed of as household waste anywhere in the EU. To prevent damage to the environment or negative effects on people's health from the uncontrolled disposal of products, you must have them recycled responsibly so that residual materials can be reused in a sustainable way. Dispose of this product through the appropriate channels or contact the company where you purchased this product.