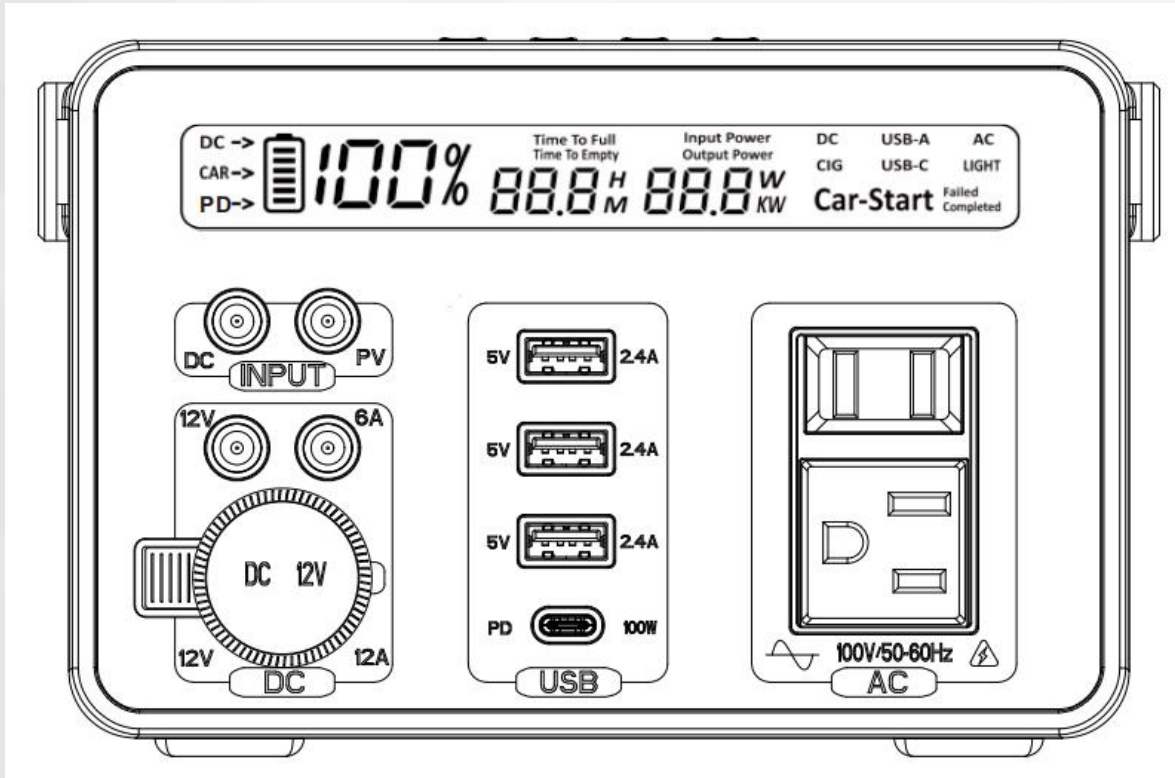


# Lithium Battery Portable Power Station

## Instruction Manual



※Please read this product manual carefully before using.

※If idle for a long time(more than three month),make sure there is 50%-80% power storage, to extend the battery life.

※Please keep away from fire. Prohibit using while the power station is overheating.

※Products and accessories are subject to adjustment without extra notice.

※Please read this product manual carefully before using.

※The product dissipates heat through its casing, and it is normal for the casing to heat up during use. When using the product at room temperature, please avoid covering it with cotton fabric, as it may affect the heat dissipation.

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## 1.Package list

NO.	Name	Note
1	Power station	The picture is P300,There are some differences in the shapes of these models(P300,P600,P1000)
2	Adapter	Charge the power station
3	Charging Cable	AC Adaptor cable
4	Car charging cable	Car charging and Car start
5	Instruction manual	Manual instruction and Guarantee card

## 2. Product Introduction

This product is a professional portable power station, with 12V DC output port, USB-A and USB-C fast charging ports, 220V pure sine wave AC output port, array LED lighting. This product is mainly used for outdoor power supply (travel, office, outdoor work, rescue) and household emergency power supply. This product can be charged in a variety of ways (solar power generation, vehicle charging, power charging), the product has a built-in UL certification automotive-grade lithium-ion battery, battery management system (BMS), charging management system, power management system, DC module, AC Inverter module. Wrapped by a high-strength six-series alloy body shell.

The product is featured with small size, light weight, quietness, and high IP protection level. After strict design, debugging and verification, it has obtained CE\FCC\ROSH\PSE\UN38.3 and other international certifications. The product is safe and reliable.

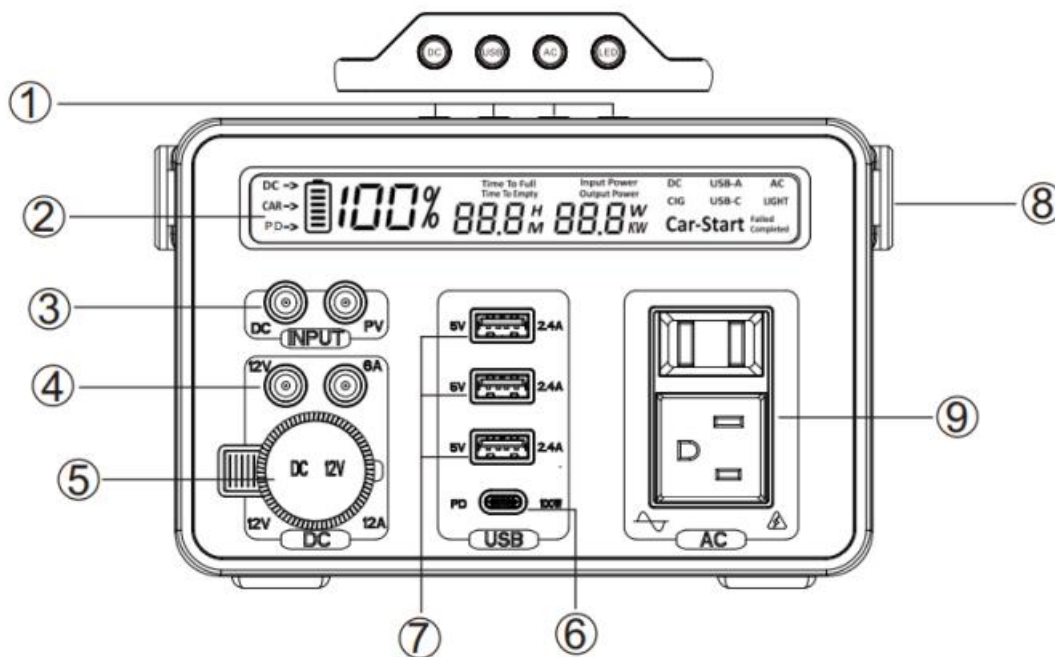
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## 2.1 Main function and Features:

- ◆ AC100V~240V/50~60HZ pure sine wave output (set according to the power standards of each country or region)
- ◆ Three charging methods (main power charging, solar charging, car charging)
- ◆ 12V12A car cigarette lighter output
- ◆ 12V6A DC5521 output port \*2
- ◆ USB-C PD3.0 port (45-100W, some models support bidirectional, refer to the nameplate on the back of the product)
- ◆ USB-A 2.4A Intelligent Recognition output\*3
- ◆ Car emergency flexible start, start inside driving cab, start outside driving cab
- ◆ High brightness LED display (showing real-time power, Remaining Capacitance, remaining time, etc.)
- ◆ Array LED lighting (four modes: low brightness, high brightness, SOS, and fast flashing)
- ◆ BMS battery management system has a multi-stages protection system for. overvoltage, undervoltage, high and low temperature, overcurrent, and short circuit.
- ◆ Fanless design, No noise.
- ◆ Seamless structure, high IP protection level, reducing sand, dust and water vapor erosion, safer and longer life.
- ◆ Sandblasted and anodized six series aluminum alloy shell .

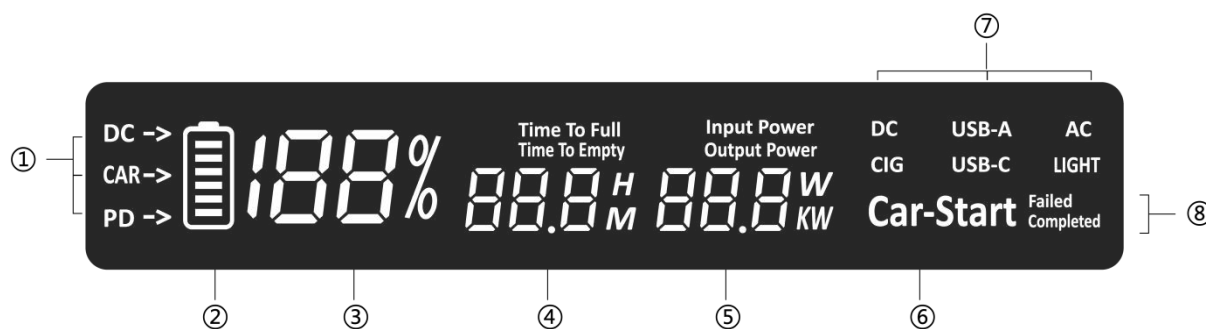
### 3.Product diagram

#### 3.1 Panel Display introduction



NO.		Function	
1	On/Off Switch	6	USB-A Intelligent Recognition Charging output*3
2	LED display	7	USB-C PD3.0port(some models support bidirectional)
3	DC5521charging port	8	AC output port , set according to the power standards of each country or region)
4	DC12V discharge port	9	LED lighting is on the back of the product
5	Cigarette lighter port		

### 3.2 LED Display introduction



NO.	Name	Function
1	Charging indication	Indicate "DC->" / "CAR->" / "PD->" ,represent different charging mode.
2	Battery Icon	Indicate battery level in 6 bars.
3	Battery indication	Display battery level in percentage, battery level 0%-100%.
4	Remaining time indication	[Time To Full] [Time To Empty],the H downside means Hours then M Downside means minutes.
5	Gross power indication & AC frequency convert	[ Input Power ]means charging Power,[Output Power] means discharging Power. +W or KW downside means the Power Unit Watt or Kilowatt. If you want to transfer the AC frequency,press AC buttons for 3 consecutive times,[F50] in the screen represents 50HZ; "F60" represents "60HZ" .
6	Car charge constant current mode	When [Car-Start] shows on the display. It represents car charging constant output. This applies to charging the car battery, flexible start of the car.

7	Interface status indication	DC,CIG,USB-A,USB-C,AC,Light,represent the status of each port
8	Car start status indication	Car-Start /Car-Start Failed /Car-Start Completed on the right side, means car is charging, car charging failed, and car charging finished

## 4.Parameter(We owns the right to update the parameter)

### 4.1 General Specification

Model	Parameter	P300	P800	P800Pro	P1000	P1000SPro
<b>Battery</b>	Battery Type	UL certified automotive grade A+ Lithium Ion Battery				
	Battery Capacity	303Wh	686Wh	747Wh	911Wh	1121Wh
	Battery Volume	83200mAh	185600mAh	204800mAh	249600mAh	307200mAh
	Battery Voltage	14.6V	14.6V	14.6V	14.6V	14.6V
	Battery Ampere Hour	83.2Ah	135.2 Ah	166.4Ah	204.8Ah	268.8Ah
	BMS Protection	Overvoltage, undervoltage, high and low temperature, three-stage overcurrent, short circuit protection				
<b>AC output</b>	Output	100-240V Pure sine wave (set according to the power standards of each				

	Voltage	country or region)				
	Output Frequency	50-60HZ (convert manually)				
	Rated Power	350W	800W	800W	1000W	1000W
<b>DC Output</b>	DC Output	DC12V6A Max				
	Car	DC12V12A Max				
<b>USB-A</b>	USB1	5V2.4A				
	USB2	5V2.4A				
	USB3	5V2.4A				
<b>USB-C</b>	USB-C	PD3.0,5-20V,45W-100W (Max)				
<b>LED Lighting</b>	The First Gear	5W (Max)				
	The Second Gear	10W(Max)				
	The Third Gear	SOS				
	The Fourth Gear	Strobe (Alarm flashes)				
<b>Charging</b>	Adaptor Charging	65W Max	145W Max	145W Max	145WMax	145W Max
	Car Charging	100W Max	100W Max	100W Max	100W Max	100W Max
	Solar	Supports 2	Supports 2	Supports 2	Supports 2	Supports 2



	Charging	solar panels 120W Max	solar panels 160W Max	solar panels 160W Max	solar panels 160W Max	solar panels 160W Max
<b>Standby Power Consumption</b>	Quiescent Current	<100uA	<100uA	<100uA	<100uA	<100uA
<b>Weight</b>	Net Weight	3.5Kg	6.0 Kg	6.0 Kg	8.0 Kg	8.0 Kg
	Gross Weight	5.5kg	8.5 Kg	8.5 Kg	10.5 Kg	10.5 Kg
<b>Size</b>	Product Dimension	175*118*140	175*118*267	175*118*267	175*118*297	175*118*297
	Package	270*300*220	402*275*272	402*275*272	402*275*272	402*275*272
<b>Working Temperature</b>	Charging Temperature	0°C- 40°C (Low-temperature version supports -10°C; Minimum -30°C temperature with storage bag)				
<b>Storage Temperature</b>	Storage Temperature	-10°C-45°C (Long-term storage at 25°C minimizes battery degradation. )				

## 5.product protection parameter

NO.	Parameter	P300	P800	P800Pro	P1000	P1000S Pro
1	Battery overvoltage	16.8V±0.1V				
2	Battery undervoltage	12V±0.3V				
3	Battery Low Temperature	Charging: 0°C(Low temperature version: -30°C)				
4	Protection	Discharging: -10°C(Low temperature version: -30C)				
5	Charging high temperature	Charging 45°C				
6	Discharging high	Discharging 65°C				
7	Battery overcurrent: Stage 1	30A2S	60A.2S	60A2S	100A2S	100A2S
8	Battery overcurrent: Stage 2	60A,	120A,30ms	120A,30ms	200A,30ms	200A,30ms
9	Battery short circuit	<1ms	<1ms	<1ms	<1ms	<1ms
10	AC short circuit	<50ms	<50ms	<50ms	<50ms	<50ms
11	AC overpower	450W,3S	1000W.3S	1000W.3S	1500W.3S	1500W.3S
12	USB-C overcurrent	2.0-3.5A ( Different models may vary; Please refer to the name plate of each product.)				
13	USB-A overcurrent	2.5±0.2A				
14	Car charge overcurrent	12A±1A				
15	DC5.5 overcurrent	6A±0.5A				

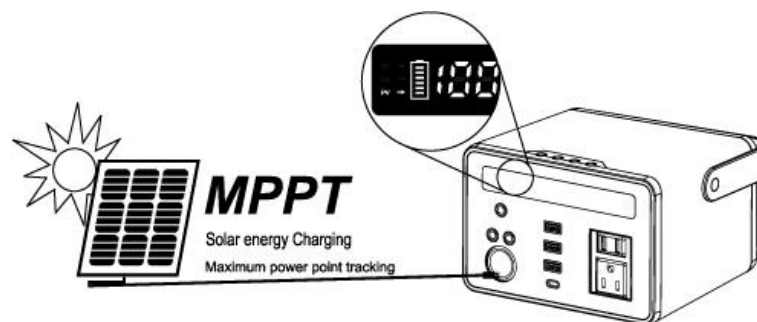
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## 6. Manual instruction

### 6.1 Solar charging

Unfold the solar panel and plug into the input port. PV in the LED Screen flashes and the battery icon scrolling. Meanwhile, time to full will be show on the screen.

Note: The power of the solar panel is greatly affected by the light condition, the solar power change will result in the change of the time to full.

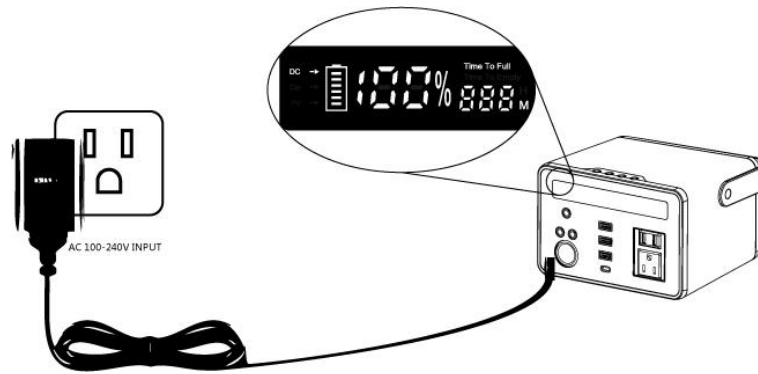


### 6.2 PD Adaptor

STEP1. Plug the PD Adaptor to the AC Power.

STEP2. Plug the other end of the AC adaptor to the DC input port, then the DC flashes in the LED screen and the battery icon scrolling, meanwhile time to full will be showed on the LED screen.

Note: The system will detect the input power when start charging, the time to full will change dynamically.



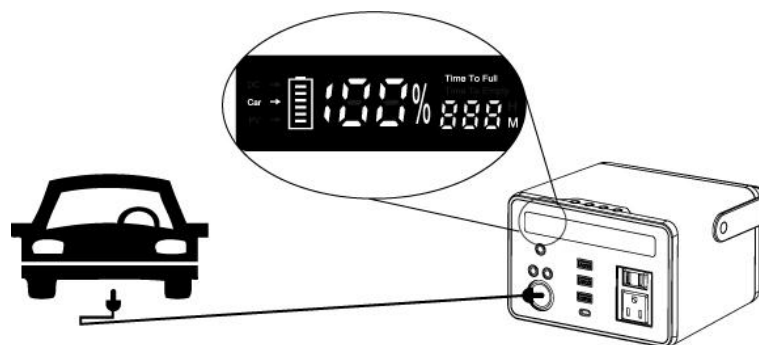
### 6.3 Car Charging

STEP1. Start the car.

STEP2. Plug one end of the car charging cable to the car cigarette lighter.

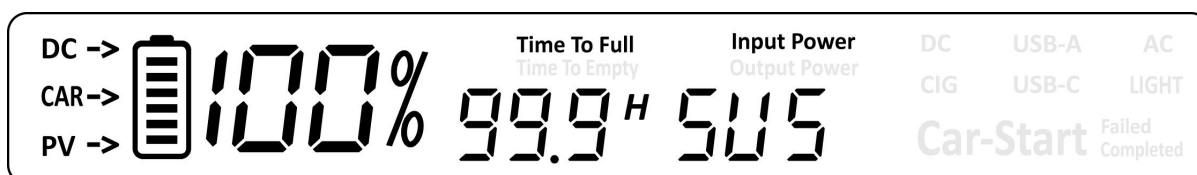
STEP3. Plug the other end of the car charging cable to the DC Port of the power station.

[Car->] will flash on the screen and the battery icon scrolling. The meanwhile time to full will be showed on the LED screen.



### 6.4 Charging Pending Status

Portable power station charging is highly protected, if the product temperature is lower than 0 degree or beyond 45degree, the product will enter charging pending status. There will be SUS showing on the screen( refer to pictures below). If the product temperature back to safe temperature range, charging will restart automatically.



## 6.5 AC Output

Long press the AC Switch for 1 second, the AC output will be on, AC will show on the right upper side of the screen. The current frequency will be show on the screen. Long press the AC switch for 1 second again. The AC output will be off. If long press AC switch for 3seconds, the whole power station will be shutdown.

## 6.6 AC Output Frequency Switching

When the AC output is on, press the AC switch for 3 consecutive times, then you can switch the frequency. F50 represent 50Hz, F60 represent 60Hz, Please setting according to the local grid frequency.



## 6.7 DC Switch on/ Switch off

Long press the DC Switch for one second, The DC5521 and the Cigar Light output will be on, the DC and CAR will show on the LED screen. Then long press the DC Switch for 1 second, the DC5521 and Cigar Light will be off. Long press the DC Switch for 3 Seconds, the whole power station will be shutdown.

## 6.8 USB Switch ON/ Switch Off

Long press the USB Switch for 1 Second, USB-A and USB-C output will be on, 显示 USB-A

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and USB-C icon will be on the screen. Then long press the USB Switch for 1 second , USB-A and USB-C output will be off, Long press the USB Switch for 3 Seconds, the whole power station will be shutdown.

## **6.9 LED Lighting ON/OFF, Lighting mode switch**

Long press the LED Switch for 1 Second , The LED lighting will be on in low brightness mode. Light icon will show on the screen, Click the USB Switch in turn to enter the high-brightness mode, SOS mode, and flash mode.

when the lighting is on, long press the LED Switch for one second. The lighting will be turn off. Long press the LED Switch for 3 Seconds, the whole power station will be shutdown.

## **6.10 Car Start function (start inside driving cab, start outside driving cab)**

### **Steps to start inside driving cab:**

- ① Turn on the car with key. (for the cars which support one click start, click the start button to turn on the car. Some car does not support inside driving cab start, in this case please start outside driving cab )
- ② Connect the car and portable power station with the car charging cable.
- ③ Double click the DC Switch, when the Car-Start flashes in the LED screen, the portable power station is charging the car.

Charging the car for 5~30 seconds. (the charging time are different depending on the car model and feeding degree) , once the Car-Start Completed shows on the screen, it means the charging is completed. You can try to start to car now. If it turns to Car-Start Failed on the screen, it means car charging failed, the car start might be failed in this case. The failure may be caused by insufficient power of this product, improper

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operation, poor contact, or none function of the car's auxiliary battery.

### **Steps to star outside of the cab**

- ① Use the cable for start outside of the cab , Connect the red alligator clip to the positive pole of the car battery.

Connect the black alligator clip to the negative pole of the car battery, and the other end of the cable connect to the car charging port of the power station.

- ② Double click the DC Switch, when the Car-Start flashes in the LED screen, the portable power station is charging the car.
- ③ Charging the car for 5~30 seconds (the charging time are different depending on the car model and feeding degree) , once the Car-Start Completed shows on the screen, it means the charging is completed. You can try to start to car now. If it turns to Car-Start Failed on the screen, it means car charging failed, the car start might be failed in this case. The failure may be caused by insufficient power of this product, improper operation, poor contact, or none function of the car's auxiliary battery.

## **7.Precautions**

Please read Precautions carefully, there are three levels, they are Dangerous Warning and Caution.



Dangerous means it might cause personal Injury or Death,



Warning means it might cause hazardous things happen "



Cautious means it might cause product damage or shorter lifecycle

Dangerous.



- When the AC output of the product is 220V, please do not insert your hand or hand-held metal conductor into the AC socket
- Do not disassemble the product privately to avoid unknown dangerous things from happening.
- Do not place the product in a high temperature environment (more than 50 degrees Celsius) or near a fire source.



Warning

- Please read the battery charger manual carefully before use.
- Disassembling the product is strictly prohibited.
- It is strictly forbidden to use products with obvious damage.
- Please charging with the original Adaptor.
- Please choose the solar panels according to the electrical parameters specified by the manufacturer.
- Please charge the power station within the temperature range of 0 ~ 45°C Charging at too low temperature will shorten the cycle life of the battery cell.
- If idle for a long time (more than three month) , make sure there is no less than 50% power



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storage.

- If the product emits peculiar smell or heat during charging or storage, please stop charging immediately and place it in an open place for long-distance observation. After confirming safety, contact the manufacturer or dealer.



Caution

- This product is a portable power station. Please select the corresponding model according to the electrical equipment. Overload and overvoltage is strictly prohibited.
- No short circuit of the product.
- The factory settings are different according to the different national voltage standard. Please consult your dealer or read the instruction manual carefully before you buy and use.
- When the product battery exhausted, please charge it in time
- Product parts are environmentally friendly and recyclable, please recycle according to local regulations.
- After using, please shut down the power station in time, the system will consume the battery power until it is empty while is on.
- If idle for more than 6 months, please charge and discharge the power station for 1~2 times to extend the battery life.

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## 8.Common Q&A

Q: There are no fans in the power station, does it safe?

A: The product adopts high-frequency resonance technology, which reduce heat generation by 50%. On top of this. We adopt alloy shell for heat dissipation. It does not need a fan. make the product quieter and safer.

Q: how long can the power station be stored?

A: With more than 50% power, you can store it for 6~12 month, but we suggest you to charge and discharge it every 3 months.

Q: how long does it take to fully charge the power station?

A: With the original adaptor, P300 takes 3.5 hours to charge to 90%, 4.5 hours to be fully charged.

With the original adaptor, P500 takes 5 hours to charge to 90%, 7 hours to be fully charged.

With the original adaptor, P600 takes 6 hours to charge to 90%, 8 hours to be fully charged.

With the original adaptor, P1000 takes 9 hours to charge to 90%, 12 hours to be fully charged.

Q: Can I charge the product with solar panel and car charger at the same time?

A: Yes, it can be charged together at the same time. the charging time will be reduced by half.

Q: Can the product be discharged while being charged (for output use)?

A: This product supports discharging while charging. When the output power is greater than

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the input power, the battery power is slowly reduced, and when it is reduced to a low power state, the output will turn off automatically.

Q: Is there any temperature protection?

A: Yes, charging is 45degree, discharging is 60degree.

Q: Will the product shut down automatically?

A: After the product is deeply discharged, it will automatically shut down, However, under normal circumstances, after turning on, in order to to supply power continuously, it will not shut down automatically.

Q: Is there is any limit on car displacement when we use the power station for car start?

A: The car starting is essentially charging the car battery, and start the car flexibly. We support all the car model with 12V, there is no limit in car placement.

## 9.Troubleshooting

### 9.1 There is no response when the product is turned on, and there is no output for DC, USB, AC, and LED.

#### Solution:

- (1) Remove all electrical equipment, then charge for 5-10 minutes, and restart again
- (2) Please make sure the product is currently running within its temperature range

### 9.2 The product can be turned on, but there is no output from DC, USB and AC.

- (1) Check whether the battery power of the product is too low, if yes, please charge it in time

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(2) Check if the electrical equipment power is higher than the output power of the power station. If yes, please remove all the electrical equipment and try again.

(3) Confirm whether the output of this product meets the power requirements of electrical equipment.

(4) Check whether there is a short circuit between the output port and the electrical equipment. If yes, please restart after removing the equipment.

(5) Try to connect the device with other power source, to see if it can run normally. If yes, it might be caused by incompatibility of individual device.

### **9.3 The product shuts down unexpectedly while running.**

#### **Solution:**

The activate of the inner protect system cause shutting down of the products.

The factors that might activate the protection system are overcharge, overdischarge, high temperature, low temperature, Over current, short circuit.

In order to solve the problem quickly, please remove all electrical equipment, keep the product temperature in the normal temperature range, and charge the product for 5-10 minutes. At the same time, check if there is equipment failure. And then restart.

### **9.4 Unable to charge the product**

#### **Solution:**

(1) Please confirm whether the electrical device power is within the charging range of our power station.

(2) Check whether the current device has activated the temperature protection because the temperature is too high or too low

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## 10. After-sales Service

### Warranty Guideline:

In the event of product failure, please operate according to the manual instruction. If the fault can still not be removed, please contact our aftersales technician.

When contacting the after-sales technician, please provide the following information:

product model, date of purchase, contact number, detailed address, product failure description.

Please help our after-sales technician to understand the details of the failure, so that our after-sales technician can identify the cause of the failure accurately, and work together with our after-sales technician to resolve the problem. If it is confirmed the products needs to be returned for repair, please contact the dealer or Online sales platform and request for repairment. Our after-sales team will respond to the request promptly.

- We provide 12month of warranty since the date of purchase. 24month of warranty will be provided for the purchase from the maker directly.
- During warranty, we will provide free repairs and free parts replacement for product defects in materials and workmanship, or damages caused by non-human reasons
- During the warranty period, the following conditions cannot enjoy free maintenance services
- Open the product privately
- Obviously deformed damage caused by external force is not covered by the warranty
- The user does not follow the manual instruction.
- Failure or damage caused by force majeure (lightning, flooding, etc.), man-made

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(operation error, charging with non-original chargers, etc.), and environmental factors (high temperature, humidity, etc.);

- Product packaging boxes and product accessories are not covered by the warranty.

**Disclaimer:**

The power station has a built-in battery management system, which can protect the product from overcharge, overdischarge, overcurrent, short circuit, high and low temperature, communication abnormality, etc., When supply power to special equipment, such as medical equipment and server, the power supply might interrupt due to the activation of the protection system. Our company does not responsible for the loss (direct and indirect) caused by power supply interruption.