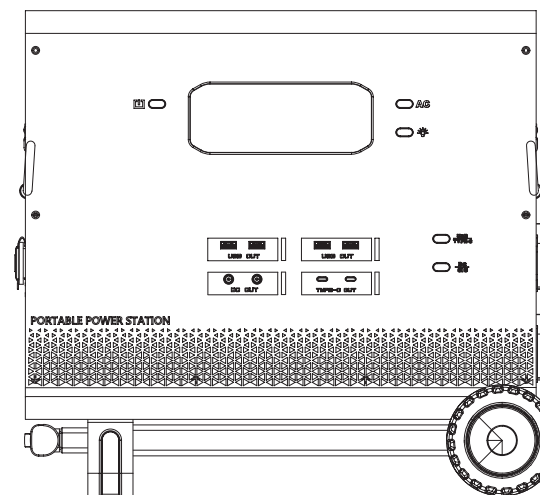


USER MANUAL

Portable Power Station

3600W



Tel: 0769-81116886 (CHN)

E-mail: Tursan@tursan-energy.com

Website: www.tursan-pps.com

9/F, Block E, No.22,Xianghe 3rd Road, Dalang Town,Dongguan City, Guangdong Province, China

Thank you for purchasing our product. This manual is intended to guide you in the safe and effective use of this product.

This manual describes the safety instructions, proper operation, precautions, warranty regulations and disclaimers for this product. After reading this manual, please keep it in a safe place so that you can refer to it at any time. Subject to the laws and regulations, we have the final right to interpret this manual and all documents related to this product. If necessary, its contents will be updated, modified or terminated without prior notice.

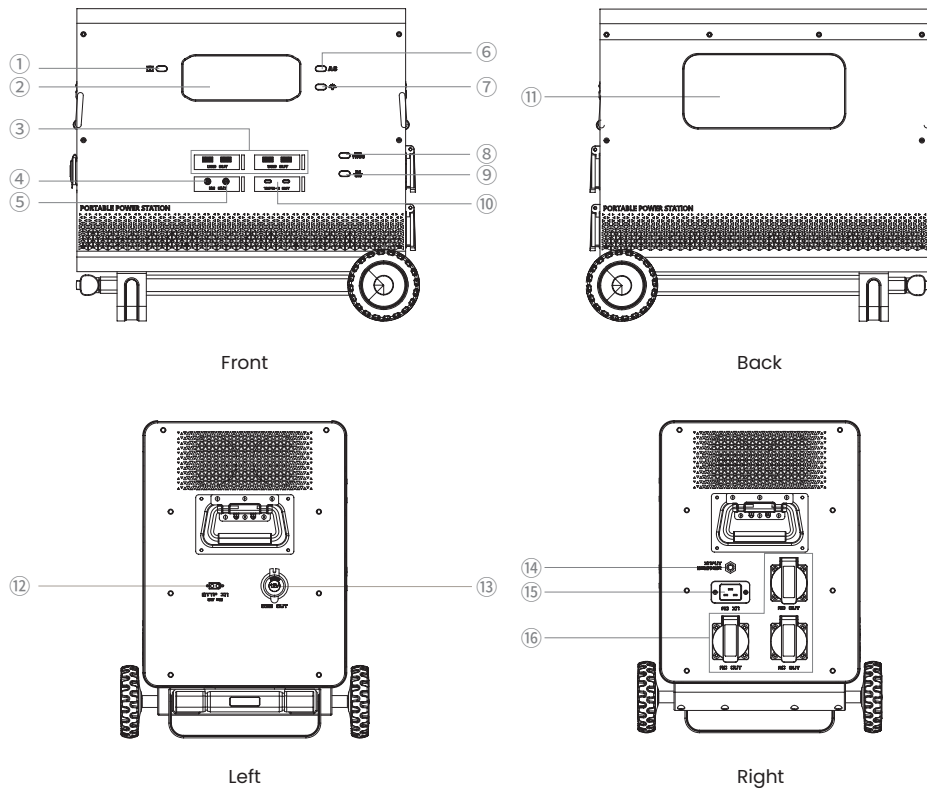
SAFETY INSTRUCTIONS

1. This product generates electromagnetic waves during use and charging, so if you wish to power an implantable pacemaker or similar device, be sure to check with your doctor or medical institution and the device manufacturer before using it.
2. Do not attempt to disassemble or modify the product, as this may cause the product to overheat and cause a fire or electric shock. If the product is deformed or damaged due to dropping or impact, do not continue to use the product to avoid safety accidents.
3. When the charger, charging cable and plug are damaged, please replace them in time to avoid safety accidents.
4. Please use the product under the ambient temperature of -10°C ~ 45°C as specified in the instruction manual. Do not place the product in liquids or corrosive gases to avoid safety accidents. Do not use the product in environments with large amounts of vapors, dust, fumes or flammable gases to avoid safety accidents.
5. Please do not operate the product with wet hands or charge the product to avoid electric shock accidents; when used outdoors, please note that the product should not be touched by liquids such as rain, seawater, drinks, etc., so as to avoid safety accidents caused by short circuit due to the liquid flowing into the product.
6. Do not connect the AC output to any power company wires or indoor wires, which may cause electric shock or fire. When charging the product, be sure to use the charging cable configured by our company, if you need to use other chargers to charge the product in case of emergency, you must use a charger that meets the charging voltage and charging current requirements in the instruction manual to charge the product to avoid safety accidents. Please use household power supply, DC car power supply and solar panel to charge the product battery. This product is set according to the voltage standard of different countries before delivery, before purchase and use, please consult the dealer or use the product against the instruction manual.
7. If you notice any abnormal odor, overheating, discoloration or deformation during charging, please unplug the charger from the outlet promptly, otherwise it may cause overheating and fire. When connecting the power plug of electrical equipment to this product, please insert the plug firmly into the root, otherwise it may lead to electric shock or fire.
8. Please keep it out of the reach of children to avoid electric shock or injury caused by improper operation.
9. Do not store this product in a humid, dusty, or hot environment as this may degrade the insulating properties of the product and cause overheating or fire. Storage at high temperatures may also shorten battery life.
10. This product should not be disposed of with household garbage; please recycle according to local laws and regulations.

SPECIFICATIONS

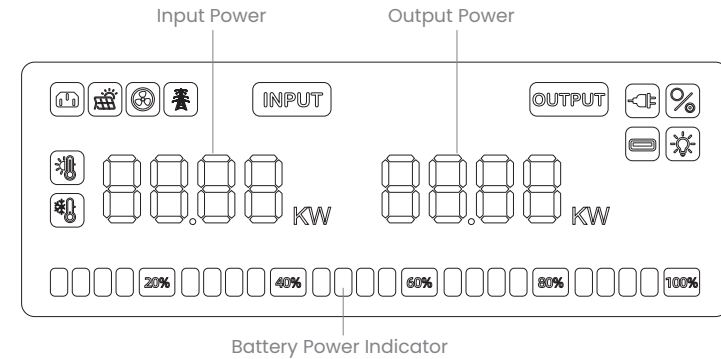
GENERAL INFO		
Rated Power	3600W Pure Sine Wave (Peak Power 7200W)	
Rated Capacity	3932.1Wh (51.2V/ 76800mAh)	
Battery Type	BYD LiFePO4 Battery	
Light	3W	
UPS	1500W Max	
Grid-Connected	Supported	
Balcony PV	Supported	
Cycle Life	6000 Cycles @80% EOL	
Weight	About 110.7 lbs/ About 50.2 kg	
Dimensions	18.5 × 13.2 × 16.9 in/ 469 × 335 × 428 mm	
OUTPUT PORTS		
Type-C × 2	PD1	5/9/12/15/20V=3A 20/28V=5A (140W Max)
	PD2	5/9/12V=3A 15/20V=2A (40W Max)
USB-QC × 4	5V=3A 9V=2A 12V=1.5A (18W Max)	
DC5521	13V=5A (65W Max)	
DC5525	24V=4.5A (108W Max)	
Cigarette Lighter	13V=10A (130W Max)	
DC5521 + Cigarette Lighter	130W Max	
AC Output × 3	110V/220V, 60Hz/50Hz (3600W Max)	
INPUT PORTS		
AC Charging	110V/220V, 60Hz/50Hz (1500W Max)	
MPPT (XT60) Charging	25V-100V (1200W Max)	
ENVIRONMENTAL OPERATING TEMPERATURE		
Operating Temperature	-10°C~45°C	
Storage Temperature	-10°C~60°C	

PRODUCT DETAILS



①	Main Switch	⑨	DC/Cigarette Lighter Output Button
②	LCD Screen	⑩	TYPE-C Output Port × 2
③	USB Output Port × 4	⑪	Lighting
④	DC5521 Output Port	⑫	MPPT (XT60) Charging Port
⑤	DC5525 Output Port	⑬	Cigarette Lighter Output Port
⑥	AC Output Button	⑭	Input Breaker
⑦	Light Button	⑮	AC Charging Port
⑧	USB/TYPE-C Output Button	⑯	AC Output Port × 3

LCD SCREEN



- AC Charging Icon**
 The icon lights up to indicate that the product is in the AC charging state.
- PV Charging Icon**
 The icon lights up to indicate that the product is in a DC charging state.
- Fan Icon**
 The icon lights up to indicate that the fan function is on.
- Grid-Connected Icon**
 The icon lights up to indicate that the product is in the grid-connected state.
- High Temperature Warning Icon.**
- Low Temperature Warning Icon.**
- AC Output Icon**
 The icon lights up to indicate that the AC output function is turned on.
- DC Output Icon**
 The icon lights up to indicate that the cigarette lighter, DC5521, and DC5525 output functions are turned on.
- USB/TYPE-C Output Icon**
 The icon lights up to indicate that the USB/TYPE-C output function is turned on.
- Light Icon**
 The icon lights up to indicating that the lighting function is turned on to.

OPERATING INSTRUCTIONS

How To Use USB/TYPE-C Output?

1. Long press the "☰" button for 2-3 seconds to turn on the product.
2. Short press the "TYPE-C" button, the "☰" icon lights up and the USB/TYPE-C output turns on. Then access the device you need to DC charge.
3. After the device is charged, short press the "☰" button again to turn off the USB/TYPE-C output.

How Do I Use The DC/Cigarette Lighter Outputs?

1. Long press the "☰" button for 2-3 seconds to turn on the product.
2. Short press the "DC" button, the "⚡" icon lights up and the DC/Cigarette Lighter output turns on. Then access the device you need to DC charge.
3. After the device is charged, short press the "☰" button again to turn off the DC/Cigarette Lighter output.

How Do I Use The AC Outlet Output?

1. Long press the "☰" button for 2-3 seconds to turn on the product.
2. Short press the "AC" button, the "⚡" icon lights up and the AC output turns on. Then access the device you need to AC charge.
3. After the device is charged, short press the "☰" button again to turn off the AC output.

How To Use Light?

1. Confirm that the product is turned on.
2. Short press the "☰" button, the "☰" icon lights up, the light function is on. Short press the "☰" button to switch the light mode.
 - a. Mode 1: light brightness on 50%.
 - b. Mode 2: light brightness on 100%.
 - c. Mode 3: SOS.
 - d. Mode 4: Atmosphere light, breathing light.
 - e. Mode 5: Atmosphere light, horse race light.
 - f. Mode 5: Atmosphere light, Flash Light.
3. In any mode, long press 2-3S to turn off the light function.

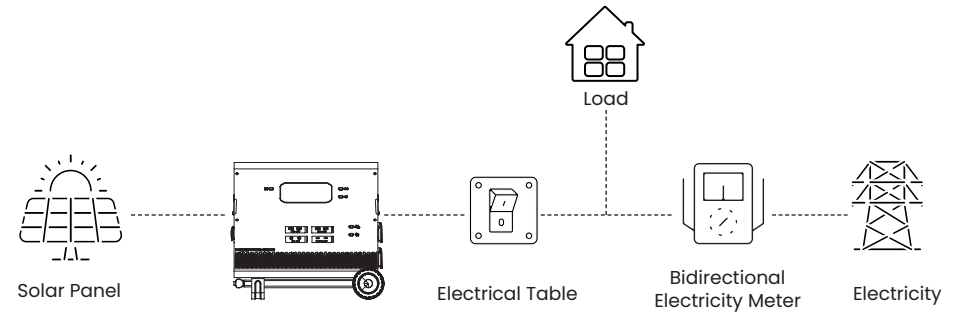
ENERGY SAVING MODE

After turning on the power, if there is no operation for 5-15 minutes, the LED screen will enter the hibernation mode; when the product is working normally, press any key to wake up the LED screen. If there is no load for 10 consecutive hours or the total load power is less than 5W, the product will enter the energy saving mode and shut down automatically.

GRID CONNECTION FUNCTION

Delivering spare surplus power to the national grid.

Self-generation and self-consumption, with surplus power fed into the grid.



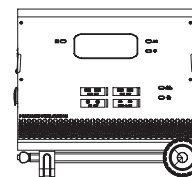
How The Product Turns On The Grid-Connected Mode?

1. After the product is turned on, connect one end of the AC charging cable to the AC charging port of the product, and the other end to the utility outlet (at this time, the charging status can be seen); then press the "AC" button to turn on the AC output function (at this time, it is the no-load status); and then simultaneously press the "AC" button and "☰" button, at this time, a buzzer will be heard and the "⚡" icon will appear on the screen, indicating that the grid-connected mode has been activated (again long press the "AC" button and "☰" button can turn off the grid-connected mode).
2. When the product is connected to both PV power and utility power, the product will be forced to enter the grid-connected mode.

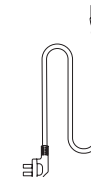
How to set the grid-connected power?

1. Long press the "DC" button, the screen "⚡" icon flashes, indicating that the grid-connected power switching function has been turned on, and the customer can switch the grid-connected power according to the actual demand; at this time, short press the "DC" button, enter the grid power adjustment mode, the input power in the display shows '800W', you can short press the "DC" button again to select 100W/200W/300W/ 400W/600W/700W/800W (the maximum power is 800W).
2. In any mode, you can long press "Confirm" to exit the mode, or wait for 10 seconds to automatically exit switching charging power mode.

PACKAGE LIST



3600W×1



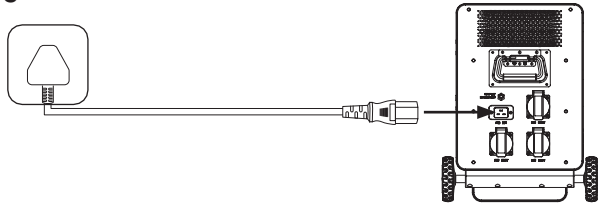
AC Charging Cable×1



User Manual×1

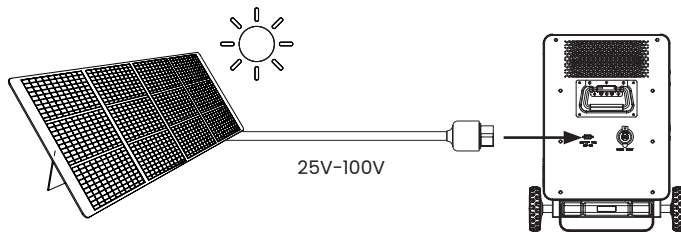
INPUT PORT DESCRIPTION

A: AC Charging



- After plugging in the charging cable, the AC charging icon on the display lights up and the power icon blinks in the form of a running light, which means normal charging; charging takes about 3-3.6 hours to fill up.
- If the internal temperature of the product is too high during the charging process, the product will stop charging and discharging.
- The power display bar on the screen shows 100% power, which means the charging is complete, the overcharge protection function is automatically turned on, and the charging stops automatically. Please unplug the charging cable in time.
- Long press the "AC" button, the "☀" "☀" icon flashes on the display, indicating that the function of switching AC charging power has been turned on, the display shows that the input power is 800W, Short press "AC" button to switch 800W/1200W/1500W charging power. In any mode, you can press and hold to confirm to exit the switching AC charging power mode, or wait for 10 seconds to exit automatically.

B: Solar Energy Charging



- Place the solar panel in a place with direct sunlight (no shade).
- This product supports MPPT charging mode, when the output port of the solar panel is connected to the MPPT charging port of the product, the PV charging icon will appear on the display, indicating normal charging.
- If the internal temperature of the product rises during the charging process, the fan will be activated to cool down the device through the fan.
- When the battery is full, the screen power display bar shows 100% power, indicating that the charging is complete, the overcharge protection function is activated, and charging will stop automatically. Please remove the charging cable from the product and the solar panel, and turn off the solar panel output function.

COMMON TROUBLESHOOTING TIPS

When the product is abnormal, the corresponding function will be forced to shut down, at this time, the connection load can be lifted first, you can press the corresponding function key to lift the abnormal error icon, and restart the corresponding function. (Note: If the hardware triggers the protection first, the screen will not display the icon to report the error).

1. When USB overcurrent or short-circuit protection, the port shuts down the output.
Note: The USB output port is purely protected by hardware, so the screen will not display the error message after USB output is overloaded or short-circuited.
2. When TYPE-C overcurrent or short-circuit protection, the port output is turned off.
Note: The TYPE-C output port is purely hardware protected, so the screen will not display an error message when the TYPE-C output is overloaded or short-circuited.
3. When the cigarette lighter output is overcurrent or short-circuit protected, the port output is turned off and the "☹" icon flashes as a warning.
Note: DC5521 output port is purely hardware protection, so the screen will not display error message after DC5521 output overload or short circuit.
4. When the AC output triggered over-temperature, overload, short-circuit protection, AC automatically shut down the output, the screen "☹" icon blinking error + display an error code, when the temperature $\leq 70^{\circ}\text{C}$ to restore the output.
5. When the discharge high temperature protection $\geq 65^{\circ}\text{C}$ shut down all the outputs, this time the icon "☹" flashes (1 second 1 flash) and there is an error code; until the battery over-temperature lifted ($\leq 55^{\circ}\text{C}$) and then restart the corresponding function.
6. When the charging over-temperature protection is $\geq 55^{\circ}\text{C}$, the charging function will be shut down; at this time, the icon "☹" is flashing (1 second 1 flash) and there is an error code; until the battery over-temperature is lifted ($\leq 45^{\circ}\text{C}$) and then restart the corresponding function.
7. When the discharge temperature is lower than the protection $\leq -20^{\circ}\text{C}$, all outputs will be turned off during low temperature protection, at this time, the low temperature icon "☹" flashes (1 second 1 flash) and there is an error code; until the low temperature of the battery is lifted ($\geq -5^{\circ}\text{C}$) and then restart the corresponding function.
8. When the charging temperature is lower than the protection $\leq 0^{\circ}\text{C}$, the charging function will be forced to shut down, at this time, the low temperature icon "☹" flashes (1 second 1 flash) and there is an error code; until the low temperature of the battery is lifted ($\geq 5^{\circ}\text{C}$), it can be charged normally.
9. When the battery is in low voltage state, and shut down all the function output, and there is an error code; if not charging then the product will be forced to shut down in about 1 minute. When USB overload or short-circuit protection, the port is forced to shut down the output.

Error Code:

111 111 Inverter Communication Abnormality
222 222 Inverter High Temperature Abnormality
333 333 Inverter Overload Protection
444 444 Inverter Short Circuit Protection

555 555 Battery low voltage protection
666 666 Battery low temperature protection
777 777 Battery high temperature protection
888 888 BMS communication abnormality

PRECAUTIONS FOR PRODUCT USE

1. Please check the relevant parameter requirements carefully when using the product to supply power to the equipment, please check whether the relevant parameter requirements of the equipment are within the scope of the energy storage power supply, and the correct and reasonable use of the energy storage power supply can prolong the life of the energy storage power supply.
2. The connection line must be matched, because various load line corresponding to different equipment. So in order to normal use of stored energy power supply for your equipment power supply, please use the guaranteed original connection cable.
3. Energy storage power supply needs to be placed in a dry environment to save, the correct preservation method can extend the life of the energy storage power supply.
4. If the product is not used for a long time, please charge and discharge the product once a month to improve the service life of the product core.
5. Don't put the product in the place where the temperature is too high or too low, and don't take it to the place where there is flammable gas to use.
6. High or low ambient temperature will shorten the service life of electronic products and cause serious damage to the product shell.
7. Do not use corrosive chemical solvents to wipe the product; the appearance of stains can be cotton swabs dipped in a small amount of anhydrous alcohol scrub.
8. When using the product, please hold it gently, do not fall or violent disassembly.
9. This product has a high pressure, please do not disassemble, so as not to cause safety accidents.
10. The first use of the product is recommended to be fully charged, to avoid inconvenience caused by the lack of power to your use.
11. After the device is fully charged and the charging power cord is unplugged, the fan will continue to work for a period of time for the device to dissipate heat (the specific time may vary with the temperature of the scene).
12. When the device fan is working, pay attention to prevent dust particles or foreign objects from being sucked into the device, otherwise it will easily lead to internal device damage.
13. After the termination of discharge, the device fan will continue to work to reduce the device temperature to reach a reasonable temperature, the specific time is about 30 minutes (the specific time may vary with the scene temperature). When charging and discharging, the load must not exceed 1200W, otherwise the fuse will be damaged.
14. During the charging and discharging process, please turn on the charging and discharging after connecting the device with the charging and discharging equipment; otherwise, sparks may appear, which is a normal phenomenon.
15. After discharging, please leave the product for 30 minutes before charging to improve the service life of the product's battery cell.
16. TURSAN New Energy (Guangdong) Co., Ltd. will not be responsible for any accidents caused by customers using the product under conditions other than those specified in this specification.

WARRANTY REGULATIONS

Please read the warranty carefully and keep it properly.

1. When the product malfunctions during the warranty period with normal use of the product according to the instruction manual, our company will be responsible for the repair.
2. If replacement or warranty is required, please send this warranty card together with the product.
3. Within the warranty period, if one of the following circumstances, the company will not be free of charge repair.
 - a. Failure or damage caused by failure to observe the precautions recorded in the instruction manual.
 - b. Malfunction or damage caused by improper storage (battery failure due to long time without charging).
 - c. Malfunction or damage caused by using an adapter other than the specified power supply within the specified voltage range.
 - d. Malfunction or damage caused by disassembly or modification.
 - e. Surface coating and cosmetic damages are not covered by the warranty.
 - f. Product packaging and product accessories are not covered by the warranty
7. Failure or damage due to force majeure (force majeure refers to unforeseen, unavoidable or insurmountable objective events, including natural disasters such as floods, fires, explosions, lightning, earthquakes and storms, as well as societal events such as wars and unrest).
8. This manual is for the use of (this sales area) only, the final interpretation right belongs to the company.
9. This manual will not be distributed to users individually, so please keep it in a safe place.
10. If the name of the dealer is not written or stamped, ask the dealer from whom you purchased the product for proof of the date of purchase and the name of the dealer, and issue a receipt to the dealer.



PRODUCT WARRANTY CARD

This card is a product warranty certificate, please be sure to keep it properly.

Product Name			
Manufacturing Number		Purchasing Date	
Dealer Name			
Dealer Address			
Customer Name			
Customer Address			
Customer Phone Number		Customer Email	