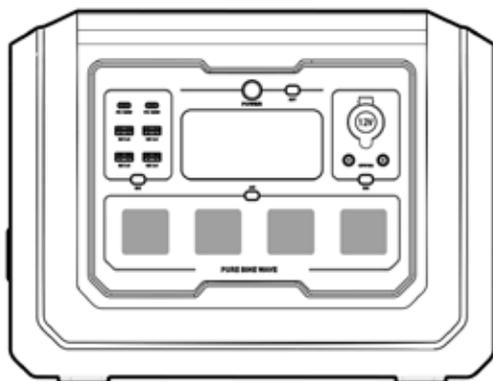


# GENZERO

By  NightSearcher

## 2000W Outdoor Power Station



User Manual

GZ-2000W

# Content

<b>APP</b> .....	1
<b>Product List</b> .....	1
<b>Product Description</b> .....	2-4
Parameter Specifications .....	2
Function Description .....	3
LCD Screen Description .....	4
<b>Instructions for Use</b> .....	4-6
<b>Recharge Methods</b> .....	6-12
AC Charging .....	6-7
Solar Charging .....	8
Car Charging .....	9
Power Pack Charging .....	9-10
Petrol Silent Inverter Generator Charging .....	11-12
<b>Other Functions</b> .....	12-14
UPS .....	12-13
Frequency Switching.....	14
Circuit Breaker Protection .....	14
<b>FAQ</b> .....	15-16
<b>Fault Code and Trouble Shooting</b> .....	16-18
<b>Storage and Maintenance</b>	19

# Disclaimer

Read this user manual carefully before using the product to ensure that you completely understand the product and can correctly use it. After reading this user manual, keep it properly for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. The Company is not liable for any loss caused by the user's failure to use this product in compliance with this User Manual.

In compliance with laws and regulations, the Company reserves the right to final interpretation of this document and all documents related to this product. This document is subject to changes (updates, revisions, or termination) without prior notice. Please visit the official website to obtain the latest product information.

- The Company is not responsible for any damage caused by force majeure (e.g. fire, typhoon, flood, earthquake or negligence, abuse or use under other abnormal circumstances by the customer).
- No compensation for losses caused by the use of non-standard connectors.
- The Company is not responsible for any damage caused by not following the instructions in the operating instructions.

# APP



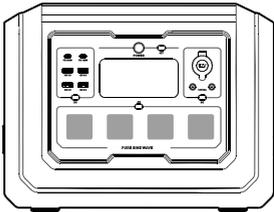
Control, monitor and customize your power station from afar with the App.

Download at:

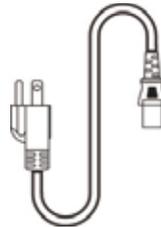
<https://wp2-us.doiting.com/release/wpoem/download.html?param=1JTEnK30>

Scan the QR code to download the smart control APP.

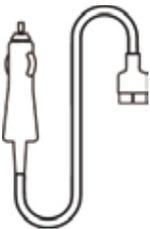
## What's in the Box



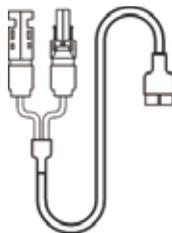
Power Station



AC Charging Cable



Anderson-Car  
Charging Cable



Anderson-MC4 Cable



User Manual & Warranty

# Product Description

## ⚡ Parameter Specifications

### Output Technical Parameters

AC Output	Rated Voltage	230Vac
	Rated Power	2000W
	Peak Power	4500W
	Frequency	50Hz
DC 5521 & Car Lighter Output	Rated Voltage	12V
	Rated Current	10A
USB-A Output	5V/3A; 9V/2A; 12V/1.5A 【18W Max】	
USB-C Output	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/5A 【100W Max】	

### Input

AC Charge Input	190~250Va.c 6.5A 1400W
PV (Anderson) Input	12~80Vd.c MPPT:18V-75V 14A 800W
Car Charge Input	12~15Vd.c 8A

### Battery

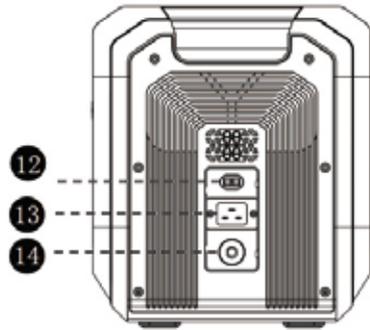
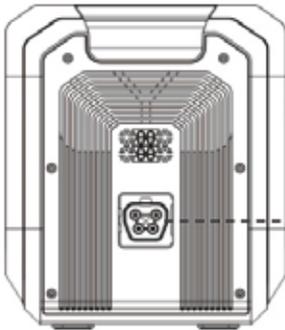
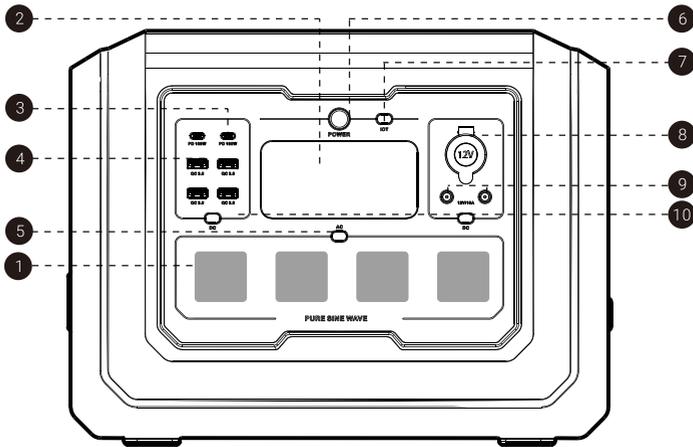
Rated Capacity	1024Wh
Rated Voltage	51.2Vdc
Battery Type	LiFePO4

### Common Information

IP Grade	IP21
Working Temperature	0°C~40°C/0°F~104°F
Dimension	15.1*9.1*11.6in (384*232*295mm)
Net Weight	27.8lb (12.6kg)

# Product Description

## ⚡ Function Description



1. AC Output Port

2. LCD Screen

3.USB-C Output Port

4. USB-A Output Port

5. AC Output Power

6. Main Power On/Off

7. IOT On/Off Switch

8. 12V Car Charger Output Port

9. DC 5521 Output Port Conversion

10. DC Output Power On/Off Switch

11. Powerpack Connection Port

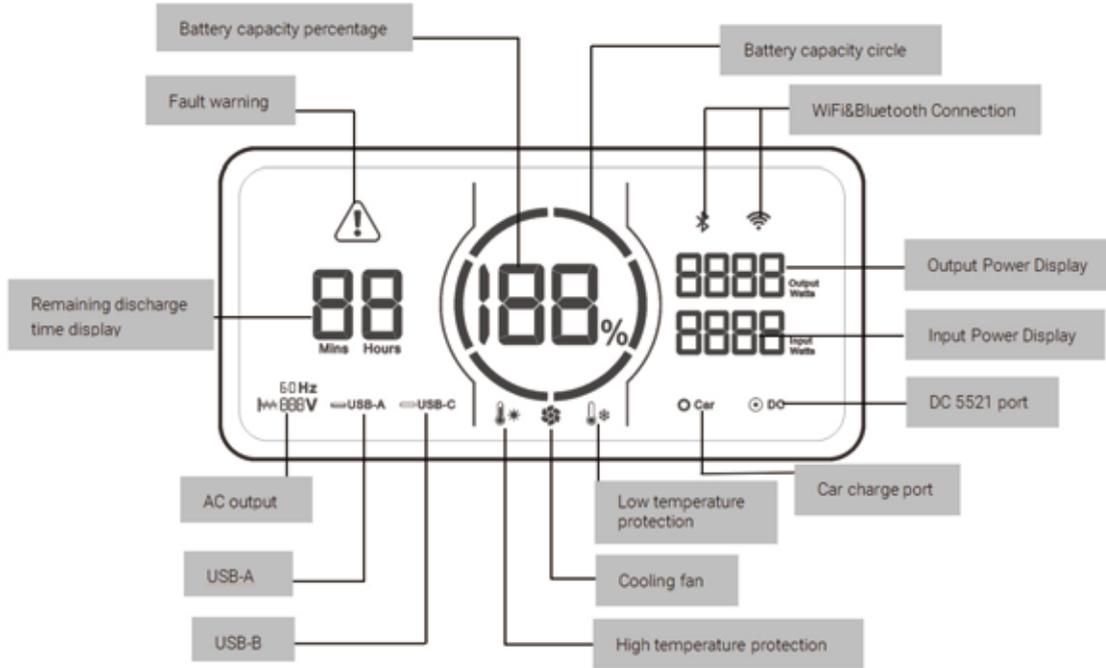
12. Anderson Input Port

13. AC Recharging Input Port

14. Circuit Breaker Protection

# Product Description

## ⚡ LCD Screen Description



## Instructions for use

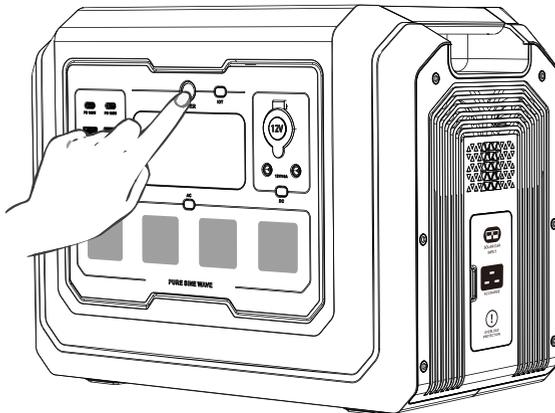
LCD battery capacity circle indicates battery level. The capacity circle is divided into six sections, accounting for approximately 17%~35%~51%~68%~85%~100% of the capacity. When in use, the LCD display automatically wakes up. When discharging, the blue capacity segment disappears from the display, indicating remaining capacity. When charging, the blue battery capacity circle flashes clockwise along the trajectory,

# Instructions for use

which indicates that the device is currently charging. The number on the right side of the energy circle now displays the real-time input power. After full charging, all blue capacity segments will be illuminated and keep in stable. After charging is completed, please unplug the charger.

Press and hold the power button, the product will turn on, the LCD screen will light up, and the power button indicator light will turn to a steady state; press and hold the power button for about 3 seconds or more, the LCD screen will display the word "off" and then release it, the product will shut down, and the LCD display will turn off.

When the main power button is turned on, lightly press the switch button of each functional area, and the corresponding function icons on the LCD screen will light up at the same time. At this time, the functions in this area can be used normally; tap the corresponding functional area button again, and the corresponding LCD screen icons will turn off. This area function stops working.



# Instructions for use

## Notice:

1. After the product is turned on, short press the main power button. The LCD screen will turn off but the product will not shut down. If the product is not operated within 5 minutes, the product will automatically shut down.
2. The default standby time of this product is 6 hours. If other output power keys are not turned on and no load is connected to the product, the product will automatically shut down after 6 hours. If the product is not operated within 5 minutes, the product will enter sleep state and the LCD screen will automatically turn off. When the product has load changes or operations, the LCD screen automatically lights up. The standby time can be set on the APP.
3. In high-temperature environments, it is recommended to use loads below 1600W when the capacity is discharged from 100% to 30%. Otherwise, it may trigger the high-temperature protection of the battery cells.

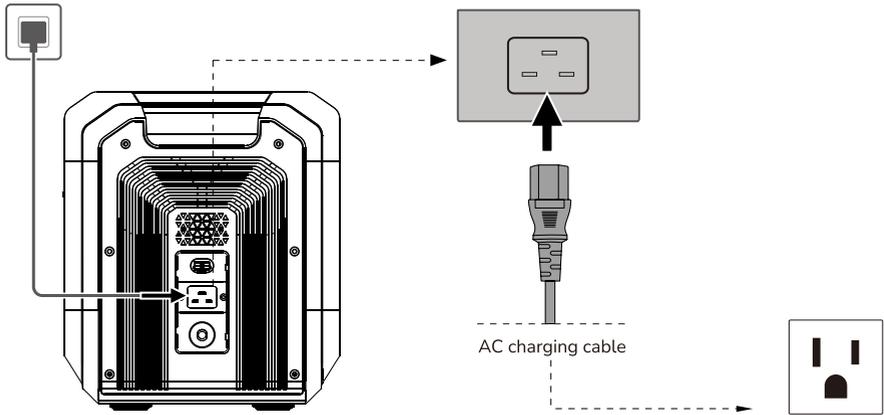
## Recharge Methods

### ⚡ AC Charging

To charge the device using the standard AC charging cable, you need to manually turn on the input circuit breaker protection switch and connect as shown in the figure. At this time, the input power reading appears on the screen, and the device starts charging. It can support up to 1400W fast charging, which takes about 1.3 hours to fully charge.

# Recharge Methods

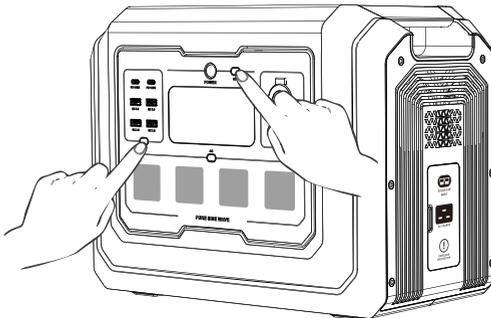
## ⚡ AC Charging



## Operation instructions for fast charge & slow charge switching function

When the AC output of the product is turned off, the switch is in the 'SLOW' position for slow charging with an input power of 700W, and the switch is in the 'Fast' position for fast charging with an input power of 1400W;

**Note:** The product's fast and slow charging function must be turned off when switching.



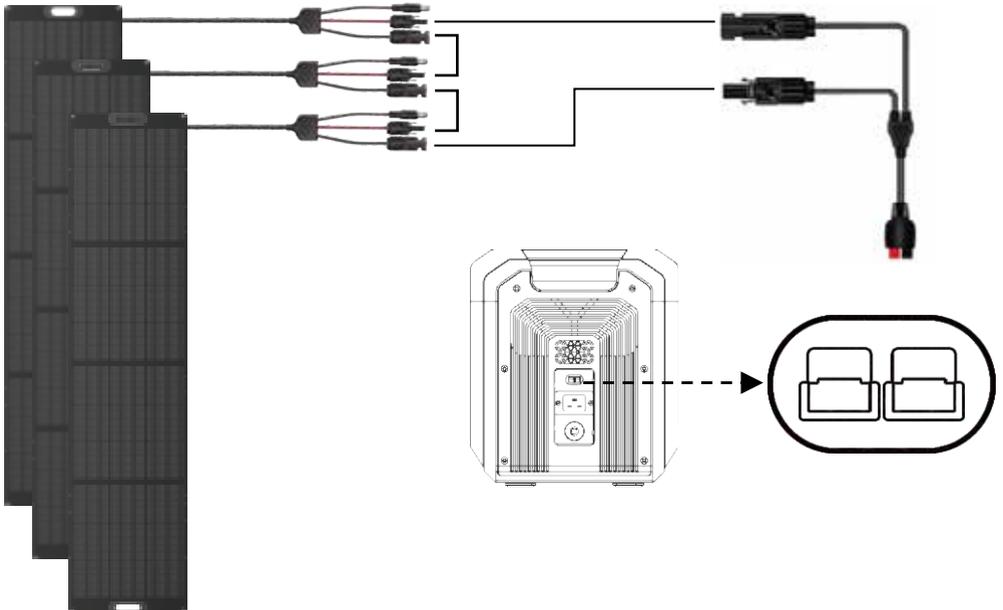
# Recharge Methods

## ⚡ Solar Charging

Use the accessories 1 "Anderson to MC4 adapter cable" to connect the standard solar panels to the device. Up to 3 standard solar panels can be connected.

### Note:

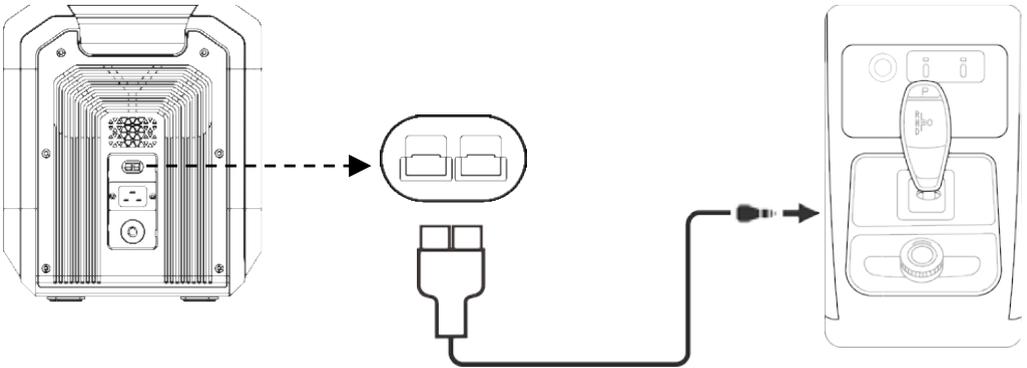
1. The solar charging cable (MC4-Anderson adapter cable) and solar panel must be purchased by yourself.
2. When using the supporting solar panel to charge this product, please make the connection according to the user manual specifications.
3. Before connecting the solar panel, please confirm that the output open circuit voltage specification of the solar panel is within 80V to avoid damage to the product.



# Recharge Methods

## ⚡ Car Charging

Use the car charger port of the car to charge this product, supporting 14V/8A car charging. For protecting the car battery from losing power and unable to start, it is necessary to use the car charger to charge after the car is started. At the same time, ensure that the car charger port and the cigarette lighter of the car charger input cable are in good connection. The company shall not be held responsible for any loss caused by non-compliance with the standard operation.

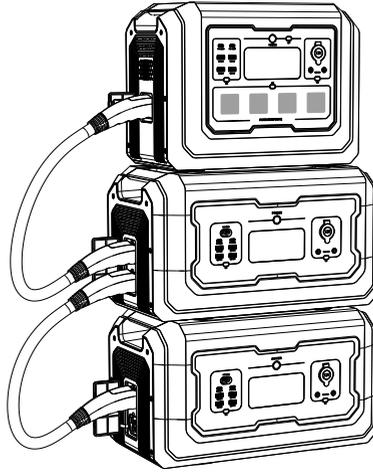


## ⚡ Power Pack Charging

Power pack(up to one) can be connected to this product. Use the product-specific power pack cable to connect the product and the battery pack, and the device starts to charge when a reading appears on the input power on the screen.

# Recharge Methods

## ⚡ Power Pack Charging



### Note:

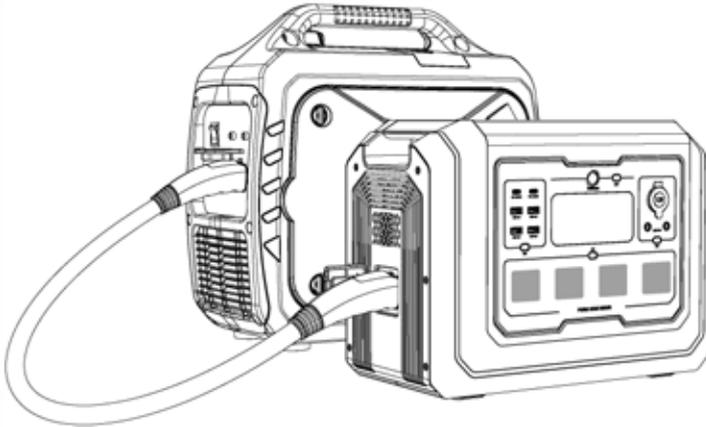
1. Please make sure that both the product and the power pack are turned off Before connecting the power pack to this product,.
2. After this product is connected to the power pack, make sure that the LCD display of this product shows the input power, and then start to use.
3. Do not directly connect or remove the power pack during the charging and discharging process. If you need to connect or remove the power pack when using, please turn off the power before operating.
4. Do not use your hands or other objects to touch the metal terminals at the connection port of the power pack . If there are foreign objects attached to the metal terminals, please lightly wipe with a dry cloth.
- 5.The device only allows to plug in and unplug the battery pack in the shutdown status;with the device on, to plug or unplug battery packs will trigger the overcurrent protection. If damage under this situation,no warranty allowed.

# Recharge Methods

## ⚡ Petrol Silent Inverter Generator Charging

This device supports charging via a petrol silent inverter generator. Use the product specific cable and petrol silent inverter generator to connect to this device.

The petrol silent inverter generator automatically starts when the power station's battery level falls below 20%, and charging begins once a reading appears on the input power on the display screen; the petrol silent inverter generator will stop operating when the battery level exceeds 85%. thereby ending the charging process.



### **Note:**

1. Please follow the petrol silent inverter generator's user manual when operating the device.
2. If multiple charging sessions are required within a short period, there is no need to operate the device after the petrol silent inverter generator automatically shuts down when the battery charge reaches 85%. The petrol silent inverter generator will automatically restart to continue charging when the connected battery level falls below 20%.

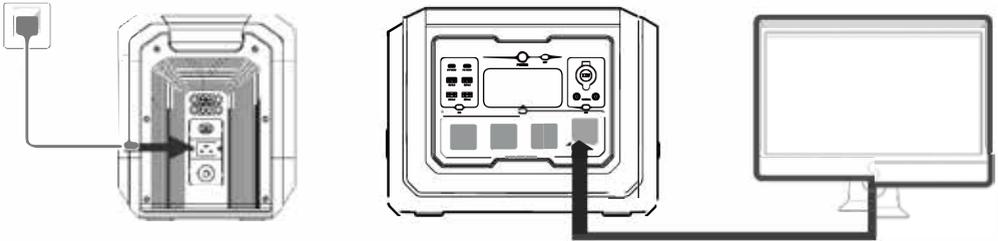
# Recharge Methods

## ⚡ Petrol Silent Inverter Generator Charging

3. Do not plug or unplug the cable when the petrol silent inverter generator and power station are in operation, as this may cause damage to the equipment.
4. In case of an emergency during the use of the petrol silent inverter generator, you may directly press the emergency stop button to halt the generator.
5. Please ensure the product is turned off before connecting to the petrol silent inverter generator; otherwise, damage caused to the equipment will not be covered by our warranty service.

## Other Functions

### ⚡ UPS function



Manually turn on the AC input circuit breaker when it is turned on. This device supports the UPS (emergency power backup) function. When the AC input port of the power grid and this product is connected through the AC charging cable, and the AC input circuit breaker is in the ON state, the appliances can use the AC output ports to work (at this time the AC power comes from the power grid, not the battery). When the power grid suddenly loses power, this product can automatically switch to the battery power supply mode of this product within 15ms.

# Other Functions

## ⚡ UPS function

### **Note:**

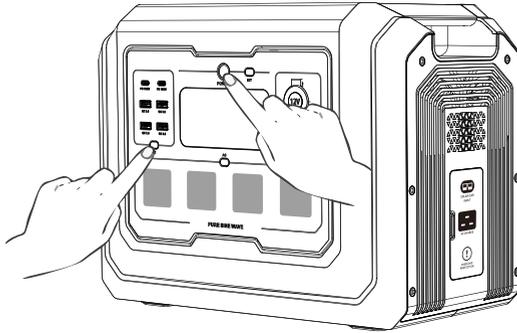
This function does not support 0ms switching ( this device is 15ms). Please do not connect it to equipment that requires uninterrupted power supply (such as data servers and workstations). The operating power of the device should not exceed 2000W.

Do not use multiple devices at the same time to avoid triggering the overload protection of this product.

# Other Functions

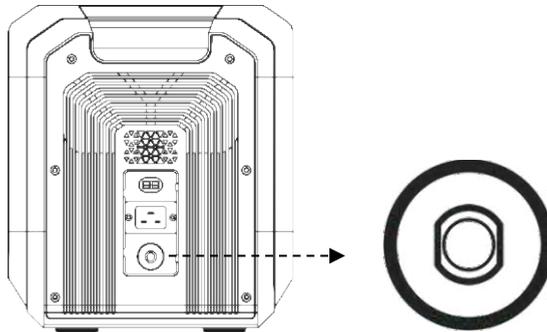
## ⚡ Frequency Switching

1. In the power-on state, turn off the AC output, and press the main power button & the DC button (USB output) at the same time to enter the switching frequency menu.
2. Press the AC output button to switch the frequency, the frequency to be set will continue to flash.
3. Long press the main power button to set the frequency, the word "SUC" will be displayed if the setting is successful, and then long press the main power button to exit the setting menu.



## ⚡ Circuit Break Protection Function

When the AC input current is continuously more than 16A, the device charge input port will protect itself. The AC input overload protector button will pop up automatically. After confirming that the product is not faulty, press the AC input overload protector to resume charging.



## **1. What type of battery does the product use?**

This product uses high-quality lithium iron phosphate batteries.

## **2. What equipment can be connected to the AC output port of the product?**

The AC output port of this product has a rated power of 2000W and a peak power of 4500W. It can power most household appliances. However, it is recommended that you confirm the power of the appliance before use and ensure that the sum of the power of all load devices is less than the rated power.

## **3. How to know how long the product can provide power?**

The LCD screen of this product will display the battery life, and devices with stable power consumption can be estimated based on this time.

## **4. How to tell if the product is charging?**

When charging, the LCD screen will display the remaining charging time, and the power indicator circle outside the battery power percentage will begin to rotate in a circular motion, and the input power will be displayed.

## **5. How to clean this product?**

Please use a dry, soft, clean cloth or paper towel to wipe this product.

## **6. How to store the product?**

When storing, please turn off this product first and then store it in a dry, ventilated place at room temperature. Do not place this product near water sources. During long-term storage, it is recommended to charge and discharge the battery every three months to extend the service life of this product.

## **7. Can this product be brought on board a plane?**

No.

## 8. Is the actual output capacity of the product consistent with the capacity specified in the user manual?

The capacity indicated in the user manual is the rated capacity of the battery pack of this product. Since this product has a certain efficiency loss during the charging and discharging process, the actual output capacity of the product is lower than the capacity specified in the user manual.

## Fault Code and Trouble Shooting

Fault code	Fault information	Status	Remarks
E000	AC output short circuit protection	 +  Flashing, no output	Press the AC output power on/off button for recovery
E001	Output overload protection	 +  +  Flashing, no output	Flashing icons indicates which circuit overload. Overload protection needs to be restored manually, UPS function overload 2000W 1 sec.
E002	AC Battery low voltage protection	The corresponding function icon flashes and the corresponding port has no output.	After protection, restart corresponding function keys to restore functions, and recharge it timely
E003	AC output over-voltage and low voltage protection	 Flashing, no AC output	You need to manually press the AC power button to recover
E004	Abnormal AC input frequency	 Flashing, no output	Automatically recover when frequency is normal
E005	High and low bus voltage, over-current	 Flashing, no output at all ports	You need to manually press the AC power button to recover

# Fault Code and Trouble Shooting

Fault code	Fault information	Status	Remarks
E006	Inverter over-temperature charging over-temperature protection	 +  +  Flashing, no output	Temperature lower down to normal level, it will recover automatically
E010	Overload and short circuit of the cigarette lighter socket	 +  +  Flashing, no output	You need to manually press the DC power button to recover
E011	Overload and short circuit of the USB-A port	 +  Flashing, no output at all ports	You need to manually press the DC power button to recover
E012	Overload and short circuit of the USB-C port	 +  Flashing, no output at all ports	You need to manually press the DC power button to recover
E016	Overvoltage of the inverter input battery	E016 code +  Flashing	You need to manually press the DC power button to recover
E020	BMS communication failure	 Flashing, no output at all ports	Check BMS communication cable
E021	Battery cell high voltage alarm	E021 code flashing	Set the device aside and wait for the battery voltage to recover automatically
E022	Battery cell low voltage alarm	Battery capacity percentage flashing	Connect the AC charging cable and keep charging until the voltage is normal
E023	Total battery voltage is too high	E23 code flashing but output is normal	Set the device aside and wait for the battery voltage to recover automatically
E024	Total battery voltage is too low	 Flashing, no output at all ports	Connect the AC charging cable and keep charging until the voltage is normal
E025	Battery high temperature	 +  Flashing, no output at all ports	Automatically resumes after temperature recovery
E026	Battery low temperature	 +  Flashing, no output at all ports	Automatically resumes after temperature recovery

# Fault Code and Trouble Shooting

Fault code	Fault information	Status	Remarks
E027	System overload	 Flashing, AC output close, DC output is normal, the AC load is higher than 2100W or AC+DC load is higher than 2100W	You need to manually press the AC power ON/OFF button to recover
E028	Charging over-temperature	 +  Flashing, charging stop	Automatically resumes after temperature recovery
E029	MOSFET over-temperature	 +  Flashing, no output at all ports	Automatically resumes after temperature recovery
E030	Abnormal battery pack connection	Battery pack connection error	Please replace with the standard battery pack

## **IMPORTANT SAFETY INFORMATION:-**

- To ensure heat dissipation, please make sure at least 5cm space around the generator for smooth airflow.
- Never submerge in water.
- If you suspect the unit has water inside, do not use or attempt to recharge.
- Dropping the Generator may damage the battery or circuit components inside.
- IF THE GENERATOR HAS BEEN SUBMERGED IN WATER OR SUSTAINED DAMAGE IT COULD BE A FIRE HAZARD. DO NOT USE THE PRODUCT.
- Place outdoors in a non-combustible container well away from flammable materials. DO NOT RECHARGE THE BATTERY AND CONTACT NIGHTSEARCHER.
- Place the generator outdoors in a non-combustible container well away from flammable materials and contact: [www.nightsearcher.co.uk](http://www.nightsearcher.co.uk) /+44 (0)2392 389774.
- Always recharge the generator on a hard, flat, heat resistant surface away from flammable materials.
- The battery will not reach optimum performance until 4-5 charging cycles
- Do not turn the generator off immediately after use, only turn off once the fan has stopped running.
- Avoid charging the battery in temperatures below 0°C or exposing the battery to temperatures below -5°C or above 40°C.
- Never use the charger if the leads, contacts or casings are damaged. Do not use any chargers other than those provided.
- Never expose the charger to rain, moisture or damp. If you suspect any of these have occurred then do not use the charger.
- Always check with your airline before attempting to transport by air.
- We recommend the generator is recharged every 3 months if not used for a long time.
- Keep out of reach of children.
- In case of any problems or questions please contact NightSearcher Limited.

# Storage & Maintenance

1. Please store the product away from water sources, heat sources, and metal objects.
2. In order to extend the service life of the battery, it is recommended to use or store this product in an environment of 20°C to 30°C.
3. If long-term storage is required, please charge and discharge this product once every 3 months (first discharge to 0%, then fully charge, then discharge to 60% for long-term storage); products that have not been charged or discharged for more than 6 months Warranty will not be provided.
4. For safety reasons, do not store this product in an environment above 45°C or below -10°C for a long time.
5. If the product is seriously low on power and idle for too long, the product will enter deep sleep mode, and the product must be charged before use again.

## Warranty

Supplied with a 5 year standard warranty on all manufacturing defects and on all rechargeable batteries from the date of purchase. If at any time, you need to dispose of this product or parts of this product: please note that waste electrical products, bulbs and batteries should not be disposed of with ordinary household waste. Recycle where facilities exist. Check with your local authority for recycling advice. Alternatively, NightSearcher is happy to take receipt of this product at end-of-life and will recycle it on your behalf.



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RoHS



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