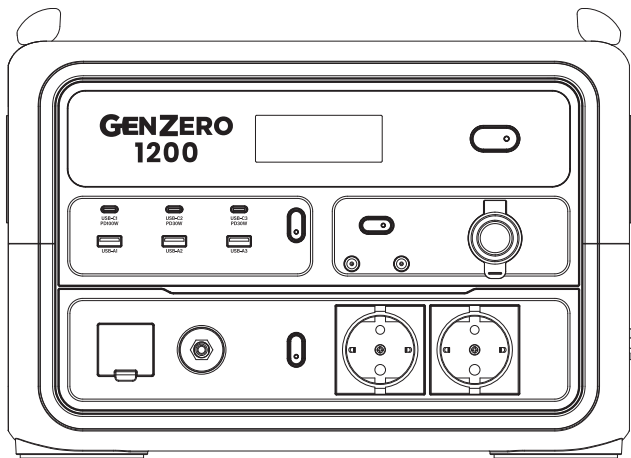


GENZERO

PORTABLE POWER STATIONS

GZ-1200W-230V/-EU

User Manual



Product Description

- This product is a portable energy storage power supply, suitable for home emergency power supply, outdoor traveling, emergency rescue, field work and other applications.
- The product has a built-in lithium iron phosphate battery pack, supports AC 230V/60Hz 1200W pure sine wave output, configured with a variety of DC port outputs.
- The product has AC 800W input function, and supports XT60 port DC/PV 11V-58V 400W DC charging mode with MPPT mode. In addition, the product has UPS function.

It Can be used to charge the following products



GPS Watch



Phone



iPad



Laptop



Camera



Projector



LED Light



Fan



Drone



Game Console



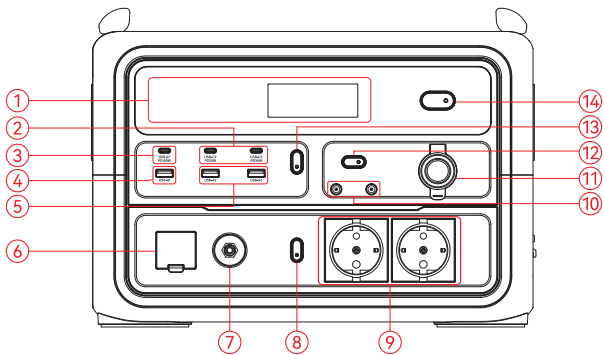
Mini fridge



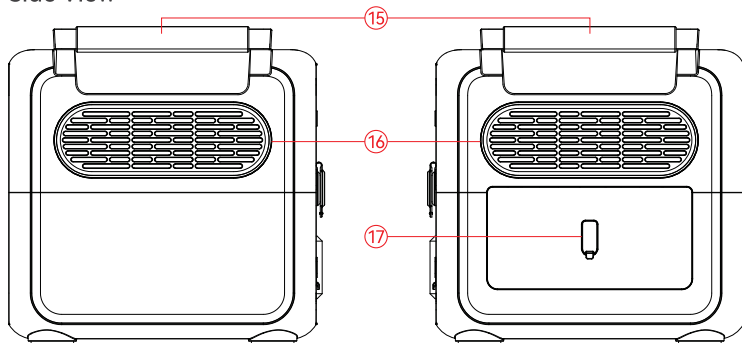
Electric tool

Diagram

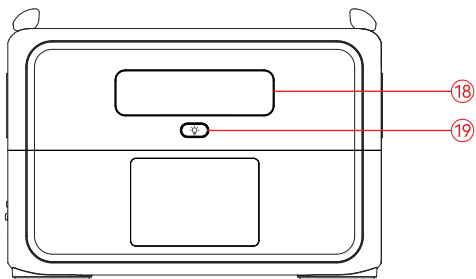
Front View



Side View



Back View

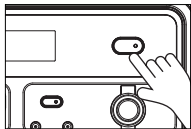


- ① LED Screen
- ② USB-C2/C3 PD30W Output
- ③ USB-C1 PD100W Output
- ④ USB-A1 22.5W Output
- ⑤ USB-A2/A3 5V/2.4A Output
- ⑥ AC Input
- ⑦ Circuit Protector
- ⑧ AC ON/OFF
- ⑨ AC Output×2
- ⑩ DC5521 Output×2
- ⑪ DC Cigarette lighter Output
- ⑫ DC ON/OFF
- ⑬ USB ON/OFF
- ⑭ Main Power Button
- ⑮ Handle
- ⑯ Cooling Duct
- ⑰ XT60 Solar Input
- ⑱ LED Light

Operating Instructions

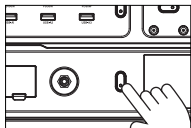
Pushbutton Guide

Individual button operation



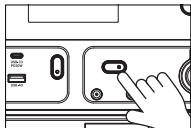
Main Power Button

- ① Power on: Long press the main power button for 3 seconds to turn on the machine; the display will light up and show the current power level and remaining time and other information.
- ② Shutdown: Long press the main power button for 3 seconds to shutdown the machine.
 - * In the case of charging input, long press can't turn off the machine, unplug the charging device first to turn off the machine normally.



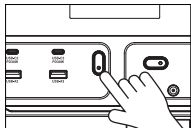
AC ON/OFF

- ① After the machine is turned on, press the AC button briefly to turn on the AC output, the AC LED indicator lights up, and the AC icon on the display shows .
- ② Press the AC button again to turn off the AC output, the AC LED indicator goes out and the AC icon is not shown on the display.



DC ON/OFF

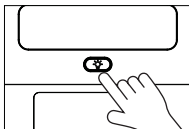
- ① After the machine is turned on, press the DC button briefly to turn on the DC output, the DC LED indicator lights up and the DC icon on the display shows .
- ② Press the DC button again to turn off the DC output, the DC LED indicator goes out and the DC icon is not shown on the display.



USB ON/OFF

- ① After the machine is turned on, press the USB button briefly to turn on the USB output, the USB LED indicator lights up and the USB and PD icons are shown on the display.
- ② Short press the USB button again to turn off the USB output, the USB LED indicator goes out and the USB and PD icons are not shown on the display.

Light ON/OFF



- ① Short press the light button once to turn on the LED light, the light icon on the screen lights up, short press the button in turn, the LED light will light up in the following order: low, high, SOS.
- ② SOS distress signal: three short, three long, three short:
On for 200ms, Off for 200ms, On for 200ms, Off for 200ms, On for 200ms, Off for 800ms;
On for 600ms, Off for 400ms, On for 600ms, Off for 400ms, On for 600ms, Off for 800ms;
On for 200ms, Off for 200ms; On for 200ms; Off for 200ms; On for 200ms, Off for 2000ms.
- ③ When the LED is on, press and hold the LIGHT key (2 seconds) to turn off the LED.

Key combination operation

Settings:

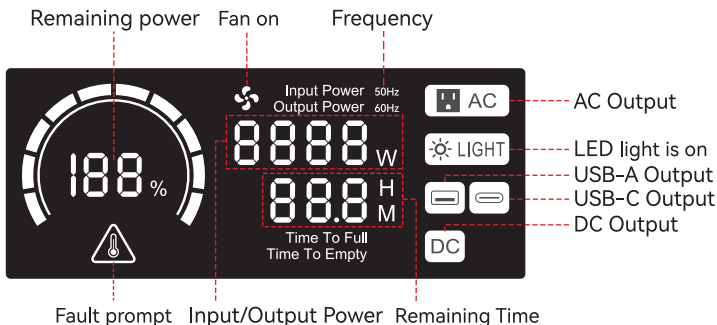
AC Output 50/60Hz Frequency Switching.

Setting steps:







- After the machine is turned on, in the case of AC shutdown, short press the AC button and DC button at the same time for about 2 seconds to enter the mode setting interface;
- Frequency switching: 50Hz/60Hz displayed at the top of the screen is the current output frequency, short press AC button to change the output frequency;
- Press AC button and DC button at the same time to exit the setting mode, the setting is successful.

Remarks: When entering the setting interface and not completing the operation, it will exit automatically in one minute.

Functions of screen display and indicator



	Power on Display	When the power switch is turned on, the fan rotates and all characters and icons are displayed. After 2 seconds, when the output switch is not turned on, the current power is displayed. The character "Output Power" lights up and the power is 0; the character "No Load Time" lights up and the time is 999 H. If no operation is performed, it will turn off automatically after 30 seconds.
	Charging display	<ul style="list-style-type: none"> When charging with the charger plugged in, the power indicator symbol cycles from current level to full, while displaying the percentage of power, "InputPower" and the current input power value and "Time To Full" and the remaining charging time. Unplug the charger during charging, turn off the display and go to sleep within 30 seconds. When fully charged, it stops blinking and stops charging, after 60 seconds, it turns off the display and goes to sleep.
	Discharge display	Displays the current power cell/percentage of power, the output power and the remaining time of output, and the corresponding character of output is lit.

50Hz 60Hz	Current Output Frequency	50Hz/60Hz is the current output frequency, you can short press the AC key and DC key for about 3 seconds to enter the mode setting interface, and then short press the AC key to change the output frequency.
	Fan on	<ul style="list-style-type: none"> • Input and output total power > 150W, turn on the first gear; input and output total power > 300W, turn on the second gear; input and output total power > 810W, turn on the third gear; • When charging NTC detects the battery temperature >45°C and when discharging NTC detects the battery temperature >50°C, the fan starts the third gear. • When the DC output port is opened separately, the output power >80W, turn on the first gear.
	AC Output	<ul style="list-style-type: none"> • When the AC output is on, the indicator light is on; it shows the output power and discharge time when the load is connected. • When the AC output is overloaded, the AC output is automatically turned off and the "AC Indicator Light" blinks to warn. When troubleshooting, AC output is automatically restored, or press the AC button to restore AC output.
	Lighting Mode	When the light is on, the indicator lights up and displays the output power and discharge time.
	USB Output	<ul style="list-style-type: none"> • After the machine is turned on, short press the USB button to turn on the USB output and the icon is displayed. • Short press the USB button again to turn off the USB output and the USB icon is not displayed.
	DC Output	<ul style="list-style-type: none"> • When the machine is turned on, short press the DC button to turn on the DC output and the icon is displayed. • Short press the DC button again to turn off the DC output and the DC icon is not displayed.
	Fault prompt	If a fault occurs, the port outputs will shut down immediately and the corresponding port symbols and indicators will flash. 10 seconds later they will shut down without affecting the other outputs.

Charging method

Solar panel charging

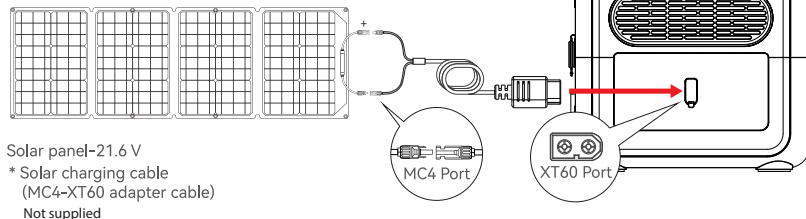


Figure 1

As in Figure 1, connect one solar panel (multiple solar panels in parallel are not supported) to our MC4-to-XT60 solar charging cable through the MC4 connector, and then connect the XT60 connector of the solar charging cable to the XT60 connector of of this product for charging. In addition, up to 2 solar panels can be connected in series.

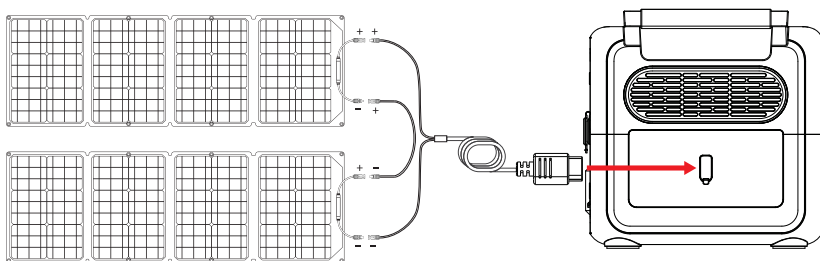
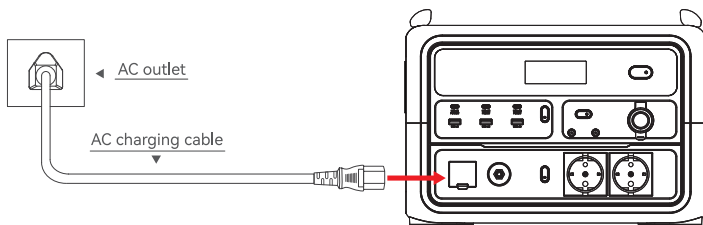


Figure 2

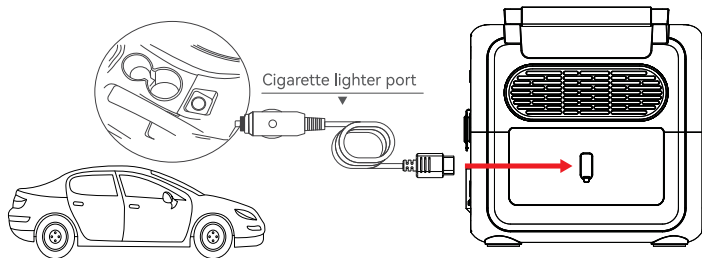
If you need to connect two solar panels, as in Figure 2, you can connect the MC4 cables of the two solar panels in series, then connect them to the MC4-to-XT60 solar charging cable, and then connect the XT60 connector of the solar charging cable to the XT60 connector of this product for charging. The MC4-to-XT60 solar charging cable does not come standard and needs to be purchased separately by the user.

Charging with a wall AC power outlet



Charge the machine by connecting the AC power cord plug to a wall outlet and the other end to the product's AC charging input port.

Car Charging

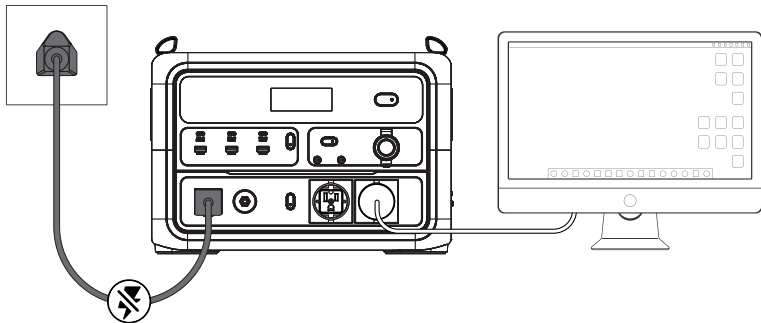


Connect this product to the car's 12V/24V cigarette lighter port via the car charging cable.

⚠ WARNING: Failure of the cigarette lighter to fully insert into the dispenser's cigarette lighter may result in a safety issue.

Introduction to UPS functions

This product has an entry-level UPS feature, which means that you can use the product's AC outlet to charge your device while connected to the wall AC power source (your device is powered by the AC power source, not the product's battery). In the event of a sudden loss of AC power, power can be switched to the product's battery in less than 10 milliseconds.



Connect the AC power supply through the AC charging cable, plug the electrical equipment into the AC power output port of the product, and turn on the AC switch to automatically switch to the entry-level mode of the UPS. The product can continue to supply power to the equipment when the AC power is cut off.

1. The UPS function only supports devices with a power of less than 1200W, please do not use other devices at the same time to avoid overload; the UPS function can only access one device, and does not support multi-device access.
2. This function is not a professional level UPS function and does not support 0ms switching. Please test your device several times to ensure compatibility before use. Otherwise, it will affect your experience. In addition, please do not access data servers, workstations, and other devices that have high requirements for uninterruptible power supply. We are not responsible if the device does not operate normally or data is lost if you do not follow the instructions.

Specification

GENERAL

Model	
Battery Capacity	1008Wh,22.4V,45Ah
Battery Type	LiFePO4
Life Cycles	2000+ Cycles to 80% Original Capacity
Weight	26.46lbs / 12kg
Dimensions (L×W×D)	13.82×9.96×10.24 in / 351×253×260mm
Operating Temperature	14-104°F (0-40°C)
Storage Temperature	14-113°F (-20-45°C)
Storage Humidity Range	5%-95% RH
Inverter Type	Pure Sine Wave
Surge Power	2400W
LED light	3W (low, high, SOS)

AC INPUT

Input Power	800W Max
Input Voltage	230V
Input Frequency	50/60Hz

DC/PV INPUT

Input Power	400W Max (MPPT)
Input Voltage Range	11-58V
Input Current	12A

AC OUTPUT×2

Rated Output Power	Total 1200W
Rated Output Voltage	230V
Rated Output Frequency	50/60Hz

USB OUTPUT

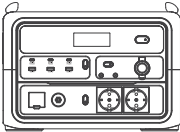
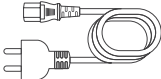
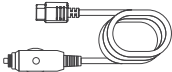

USB-A1 Output	5V=3A, 9V=2A, 12V=1.5A; SCP:5V=4.5A, 4.5V=5A, Total 22.5W
USB-A2/A3 Output	5V=2.4A, Total 12W×2
USB-C1 Output	5V=3A, 9V=3A, 12V=3A,15V=3A, 20V=5A, Total 100W
USB-C2/C3 Output	5V=3A, 9V=3A, 12V=2.5A, Total 30W×2

DC OUTPUT

DC Output	12V=10A×1(car),12V=5A×2(DC5.5mm) Total 120W
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Packing list

Standard Accessories

Designation	Diagram	Quantity
Portable Power Station		1
AC charging cable		1
Car charging cable		1
Instruction manual		1

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
+44 (0)2392 389774.
- Always recharge the generator on a hard, flat, heat resistant surface.
- 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 or an authorised distributor.

Warranty



All NightSearcher products have a 10-year standard warranty on all manufacturing defects and 5-year warranty on all rechargeable batteries from the date of purchase. For more information visit: <https://nightsearcher.co.uk/pages/warranty-information>

If at any time, you need to dispose of this product or parts of this product: please note that waste electrical products 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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