GENERGY
Zero Emission

POWER STATION GZE2224-C

Manual de uso

¡¡¡Nunca exceda estos valores!!!
Never exceed these limits!!!

Máxima entrada paneles solares 800W / Max solar panels input 800W
Rango de voltaje entre 16~70V / Voltage range 16~70V

INSTRUCCIONES DE USO
POR FAVOR, LEA ESTE MANUAL CON ATENCIÓN ANTES DE UTILIZAR LA MÁQUINA

INSTRUCTIONS FOR USE
PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE MACHINE

INSTRUÇÕES DE UTILIZAÇÃO
DEVE LER ESTE MANUAL COM ATENCÃO ANTES DE UTILIZAR O EQUIPAMENTO

INSTRUCTIONS D'UTILISATION
VOUS DEVEZ LIRE ATTENTIVEMENT CE MANUEL AVANT D'UTILISER L'ÉQUIPEMENT

GEBRAUCHSANWEISUNG
BITTE LESEN SIE DIESES HANDBUCH VOR DEM GEBRAUCH DER MASCHINE SORGFÄLTIG DURCH

CONSERVE ESTE MANUAL
Incluye instrucciones de seguridad importantes.

KEEP THIS MANUAL
It includes important safety instructions.

DEVE GUARDAR ESTE MANUAL
Inclui instruções de segurança importantes.

VOUS DEVEZ CONSERVER CE MANUEL
Comprend des instructions de sécurité importantes.

BEWAHREN SIE DIESES HAND-BUCH AUF
Es enthält wichtige Sicherheitsinformationen

CE

THANK YOU for purchasing a product of GENERGY.

● Copyright of this manual belongs to our company, GENERGY España.

● Reproduction, transference and distribution of any content of the manual is forbidden without written authorization from the GENERGY España.

● “GENERGY” and “ GENERGY Zero Emission ”, respectively, are registered trademark and logo of GENERGY products, property of GENERGY España.

● The GENERGY España reserves the right of changing its products with the GENERGY brand, as well as its manuals, without previous consent.

● This manual must be used as part of the product. If you resell the product, the manual must be delivered with the product.

● This manual explains the correct form of operating the product. Please, read it carefully before using the product. Correct and safe operation will ensure your safety and extend the life cycle of the product.

● Continuously, GENERGY España is innovating in the development of its GENERGY products through its design and quality. Despite this being the most updated version of the manual, there is the possibility of detection of slight differences between its contents and the products.

● Contact your GENERGY distributor in case of any questions or doubts.

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English

1 SAFETY AND DISCLAIMER

1. Before using the product, please read and understand the manual carefully.
2. Please keep the product dry and stay away from fire.
3. To reduce the risk of injury, please pay more attention when using this product near children.
4. Children and people with limitations, please use this product with guardian.
5. Do not put fingers, palms or any part of your body into the product.
6. Use the unrecommended accessories may cause fire, electric shock or personal injury.
7. Do not use damaged or modified battery packs or devices.
8. Do not use this product with damaged cables or plugs.
9. When the product needs repair or maintenance, do not disassemble it. Please hand the power station to a qualified service provider. Improper disassembly constitutes a risk of fire or electric shock.
10. When the product fails, in order to reduce the risk of electric shock, please remove the power station from the socket before performing any guided maintenance operations.
11. Please charge the power station in a well-ventilated place and without restricting air circulation.
12. Under some extremely harsh conditions, liquid may be ejected from the battery. Avoid contact with batteries and liquids. If contacted please rinse with plenty of water. If the liquid comes into contact with the eyes, please seek medical help.
13. Please do not expose the product to fire or excessive heat.
14. Repairs should only be carried out by qualified personnel or service.
15. Please do not exceed the specified input AC-DC voltage. Otherwise, it may cause a product failure. Warranty not applied.
16. Do not expose or use the power station in rain, snow or high humidity conditions.
17. To prevent the risk of electrocution, never use the power station with wet hands, especially if you are barefoot.
18. Please recycle and dispose of the product in accordance with local laws and regulations.
19. This product manual describes how to minimize risks. Please keep in mind and follow the operation in the manual. If you do not follow the correct operation, we will not assume the responsibility for free maintenance and other related responsibilities. Please keep the safety instructions properly!

NOTE: The company is not responsible for damages caused by disasters such as fires, hurricanes, floods, earthquakes, negligence, reckless use by users, use of non-standardized connectors. Nor for any damage that may be caused by not following the instructions in this user manual.

2 MATERIAL INCLUDED IN THE BOX

Avaliable On App Store

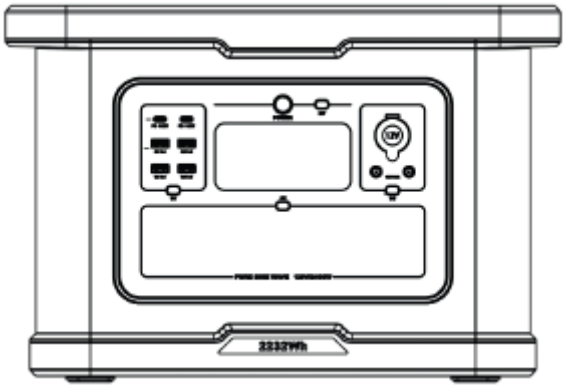
Avaliable On Google Play

APP: WINERGY

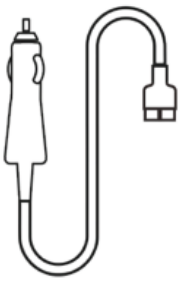
You can connect the product via APP to view, control, and customize settings from your smartphone.

Scan the QR code to download our APP

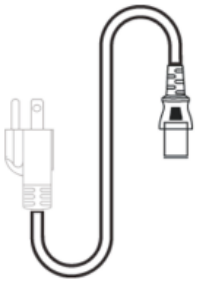
English



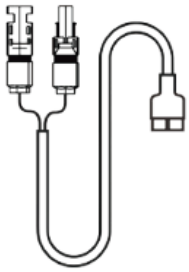
Battery station



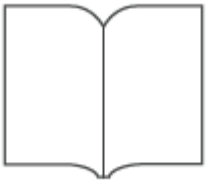
Car lighter charge cable



Charge cable AC



Charge cable MC4



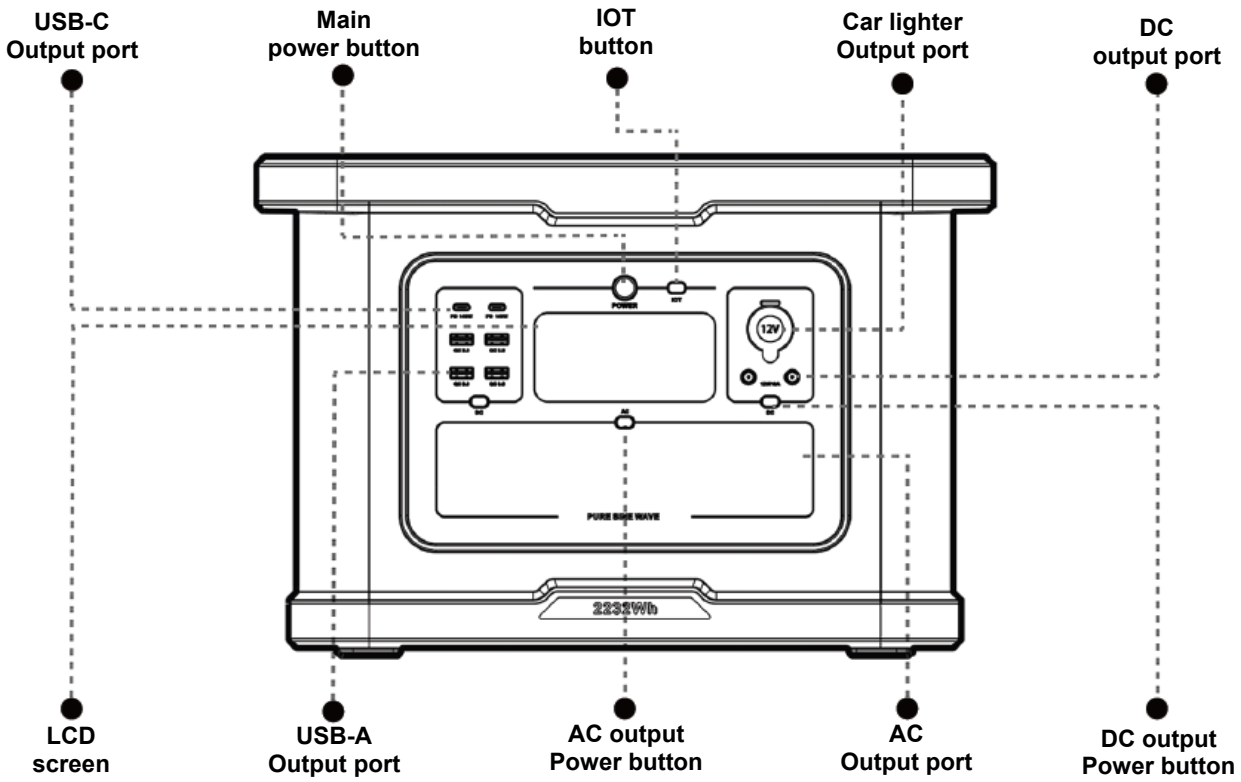
User guide

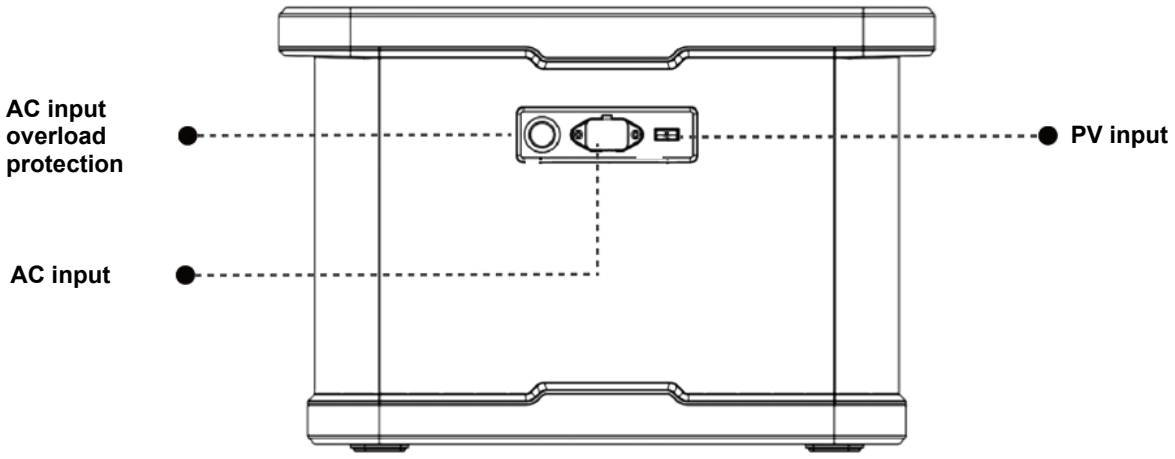
3 TECHNICAL SPECIFICATIONS

		GZE2224-C
OUTPUT		
AC OUTPUT	RATED VOLTAGE	230V
	RATED POWER	2400W
	BOOST POWER	2600W
	PEAK POWER	4500W
	RATED FREQUENCY	50/60Hz
DC12V AND CAR LIGHTER OUTPUT	RATED VOLTAGE	12V
	RATED CURRENT	10A
USB-A OUTPUT	5V3A; 9V2A; 12V1.5A【18W Max】	
USB-C OUTPUT	5V3A，9V3A，15V3A，20V5A，28V5A【140W Max】	
INPUT		
AC CHARGE INPUT	190~250Vac 6.5A 50/60Hz 700W Standard	
	90~140Vac 12A 50/60Hz 700W Optional	
PV SOLAR INPUT	12~78Vdc MPPT: 16~70V 13A 800W Max	
CAR LIGHTER	12~15.5V 8.5A Max	
BATTERY		
RATED CAPACITY	2232Wh	
RATED VOLTAGE	48Vdc	
BATTERY TYPE	LIFePO4 GRADE-A AUTOMOTIVE CELL	
IP GRADE	IP21	
GENERAL		
OPERATION TEMPERATURE	0ºC-40ºC (32ºF-104ºF)	
STORAGE TEMPERATURE	-20ºC-65ºC (-4ºF-149ºF)	
DIMENSION	457X270X310	
NET WEIGHT	20.5 Kg	

English

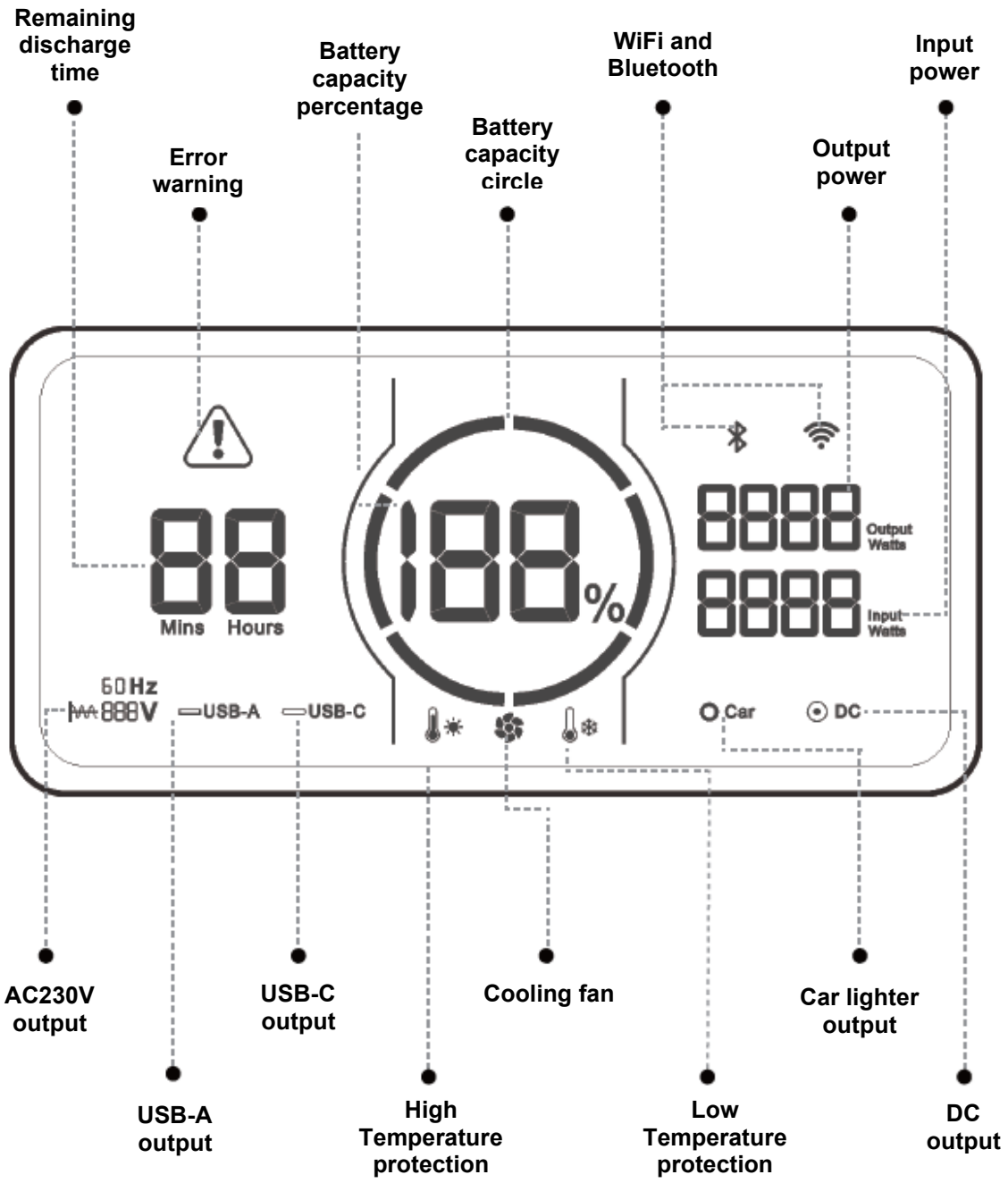
4 PRODUCT DESCRIPTION





English

5 USER INSTRUCTIONS



The battery capacity circle indicates the battery level and is divided into six sections: 17-35-51-68-85-100%.

During use, the LCD screen will light up automatically. As the battery discharges while running, the blue segment of the circle will decrease.

When charging the battery, the blue circle flashes clockwise, indicating that the device is charging. And on its right side, it will be indicating the energy input in real time. After fully charged, all blue circle segments will be illuminated and steady. When charging is complete, the charger must be unplugged.

In case of a protection failure or alert, the screen does not turn off automatically. Only after solving the problem.

English

POWER ON

To turn on the device and the screen, press the main power button for 3 seconds. The capacity circle and percentage will light up, confirming the screen is functioning. After, press the button for the desired functional area and the corresponding icon on the LCD will light up, indicating the function is active.

To turn off the screen, but keep the battery station running, press main power button. In any case, the screen will turn off by itself after five minutes of inactivity. You can turn it on at any time by pressing main power button.

In the same way, if more than 6 hours pass without connecting anything, the device will turn off completely.

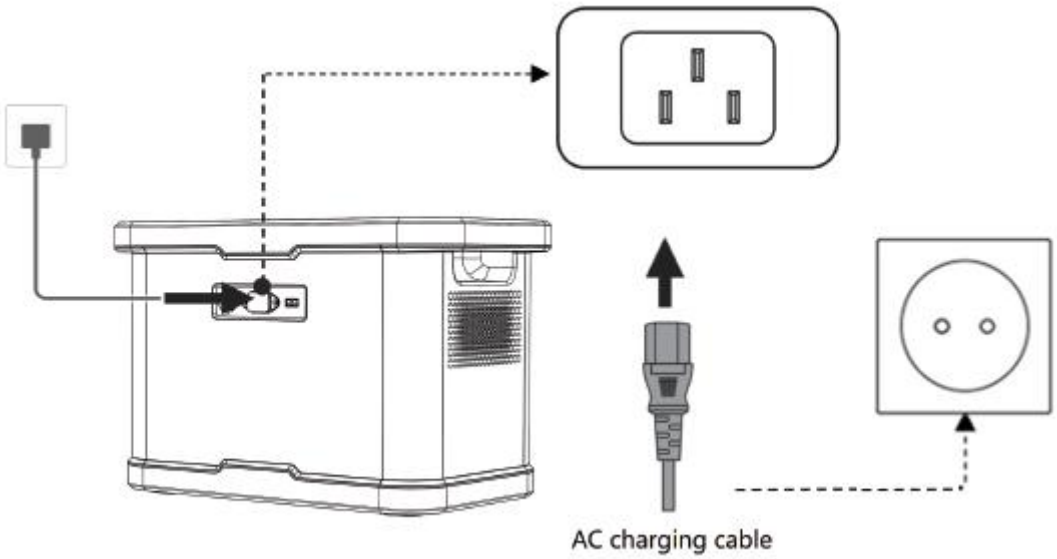
POWER OFF

Press and hold the main power button for 3 seconds. Release the button when the screen displays "OFF" and LCD Screen will go out.

IMPORTANT: It is recommended to turn off DC and AC output power buttons before turning off main power button. Input port on the side of the product functions independently of the main power button.

6 CHARGING METHOD (FROM MAINS)

To charge the battery station from the mains use the supplied AC charging cable.
When the battery is charging it will show it on the digital screen.



English

7 CHARGING METHOD (FROM SOLAR PANELS)

Use Anderson-MC4 cable to connect solar panels (included).

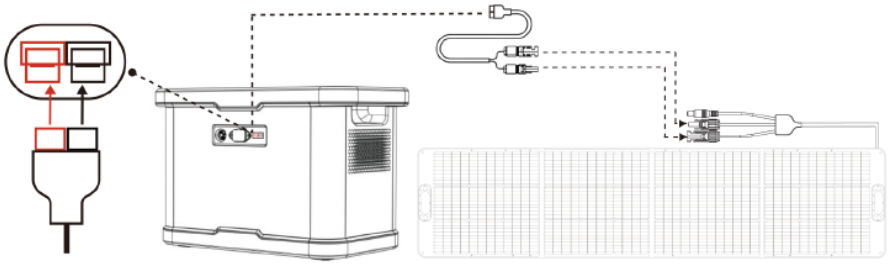
Your station can work with one or more solar panels up to 800W, **always without exceeding the voltage or current limits.**

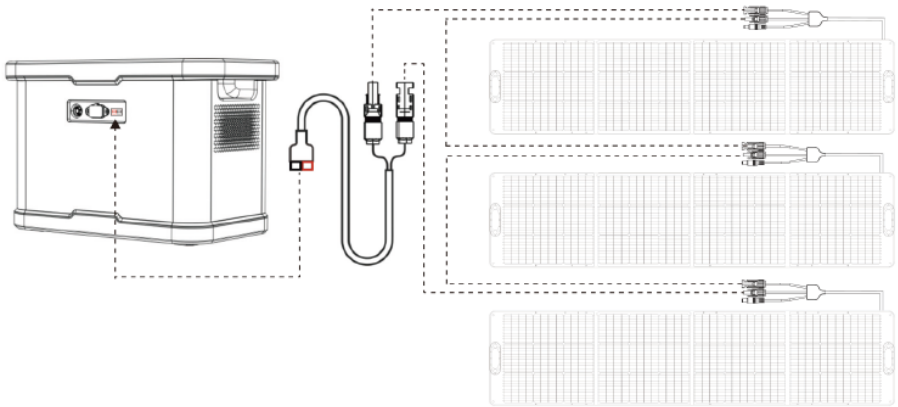
Input limit values of the photovoltaic field. **Never exceed these values!!**	
Allowable voltage range	12 – 78V
Maximum current	13A

Remember that:
Connecting several solar panels in SERIES multiplies the voltage (V).
Connecting several solar panels in PARALLEL multiplies the current (A).

Connection possibilities with GENERGY panels:

- 1 GENERGY SOLAR PANEL model SUN100W
- 1 GENERGY SOLAR PANEL model SUN200W
- 3 SOLAR PANEL GENERGY SUN200W (Connected only in parallel)





NOTE: If you do not have sufficient knowledge, consult a qualified technician.

DANGER: Incorrect connection, the use of inappropriate or defective connectors or overloads in voltage or current can cause damage to the station, risk of fire and injury to people, even risk of death.

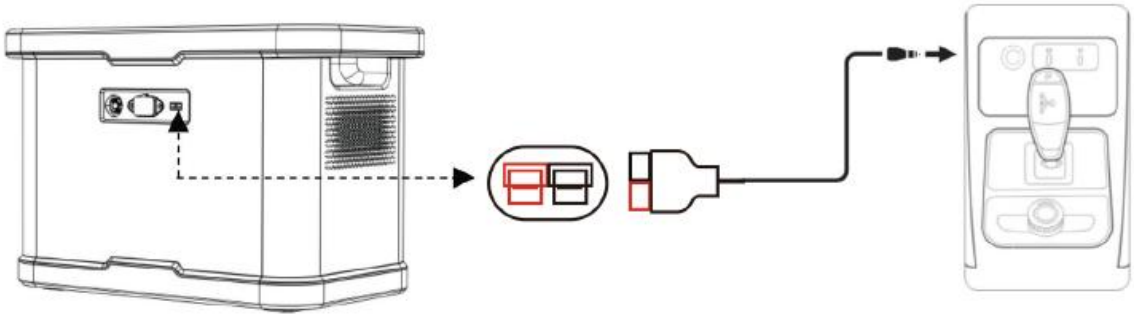
English

8 CHARGING METHOD (FROM CAR LIGHTER)

The car charging port supports 12~15.5V/8.5A car charging input electricity.

To protect your car battery from power loss and prevent the car from being unable to start, please ensure that the car is started before connecting car charging cable to car lighter.

At the same time, please check if the car charging port and the car lighter of the car charging input cable are in good connection.



English

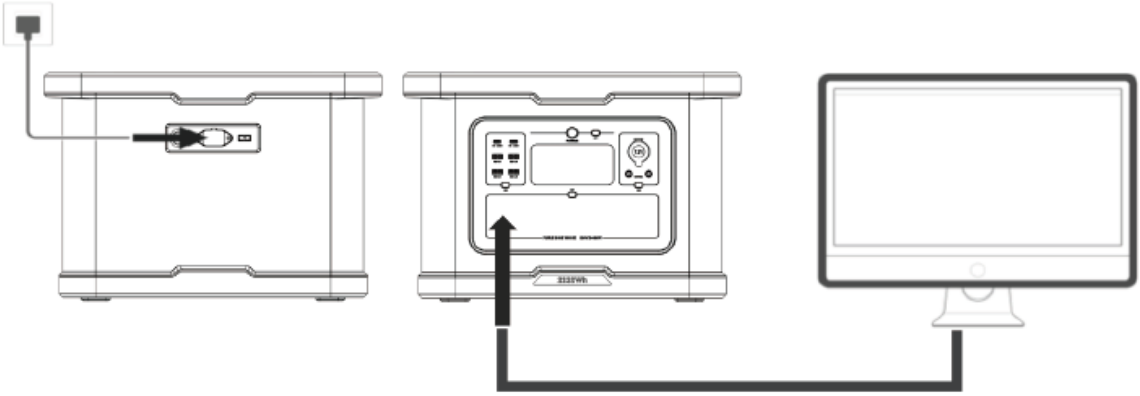
9 EPS MODE

English

This equipment allows it to be used as a backup system in EPS emergencies (Emergency Power Backup). In this way we can protect essential equipment against electricity cuts automatically, even when we are not present.

- When the station receives AC power input from the mains and the input protector is in the ON position, the power output from the sockets will come from the mains itself, instead of the battery.

- When there is a power failure, the station will detect it and transfer power from the battery in just 20ms (20 milliseconds).



NOTE: This function does not support transfer in 0ms. Please do not connect equipment that requires uninterrupted power, such as servers or computer workstations, or at least perform multiple tests to verify if the station's transfer time (20ms) is compatible with the use.

NOTE: Please note that 2400W (GZE2224-C) cannot be exceeded. Under no circumstances connect larger loads. If the maximum load is exceeded, the station will cut off the power supply after a short time and indicate overload. Do not connect too many devices without being sure that the sum of their consumption is within the nominal AC output of the machine.

WARNING: This equipment can work as EPS, but it is not a professional equipment developed specifically for this purpose. Please note that the brand will not be liable for damages or losses caused by a possible failure in the system.

10 OTHER FUNCTIONS

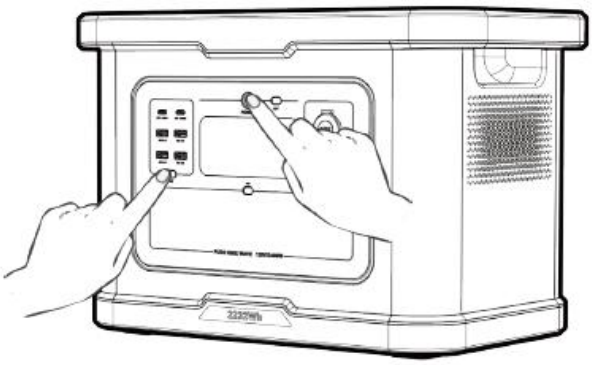
BOOST MODE

To prevent operational failures caused by overload protection, the power station automatically activates Boost Mode when the total output power exceeds the rated 2400W output power. It enables the power station to supply up to 2600W power as maximum.

NOTES:
- Boost Mode is enabled by default.
- Boost Mode is not available when the AC output on and AC charging are turned on at the same time. In this case, the power station is in the bypass mode.
- The boost mode is suitable for most electrical appliances such as heating and motor-driven equipment, some appliances equipped with voltage protection like precision instrument are not applicable to the boost mode.

FREQUENCY SWITCHING

1. Turn off the AC and DC output power buttons.
2. Simultaneously press and hold DC output power button and main power button for 3-5 seconds, till the frequency sign flashes on the screen.
3. Press AC output power button to choose frequency "50" or "60".
4. Long press the main power to confirm, then the abbreviation “SUC” will flash and the battery circle will appear on the screen.
5. Long press the main power button to exit the setting mode.



AC INPUT OVERLOAD PROTECTION

If the AC input receives a continuous current that is greater than 10A, the protector will blow. And the circuit will be cut off to protect the power station. Please disconnect all the input connections for safety reason, and make sure the input current is lower than 10A. Then press the Overload Protection button to resume charging.

AUTO DISCONNECTION DUE TO AC LOW CHARGE

Activate or deactivate from the APP

11 FAQ

What battery type does the product use?

This product uses LIFePO4 (lithium iron phosphate) batteries of high-quality and grade A.

What type of device can be connected to the AC socket of the station?

Any device that does not exceed 2400W in rated power or the 4500W of peak power.

How to know how long the product can provide power?

The LCD screen will always show an approximate value based on a constant consumption situation.

How to know if the product is charging?

When the station is charging, the LCD screen will show the remaining charging time, and the power indicator circle will rotate showing the charging percentage. Additionally, the AC voltage input will be displayed on the panel.

How to clean the product?

Please dry clean. Wipe gently with a clean cloth or paper towel.

Can this product be brought on board a plane?

No.

Are the battery capacity values indicated in the manual specifications real?

The capacity shown in the specifications is the rated capacity of the battery, but it does not exactly correspond to the real performance while is running. This is because the station makes intelligent use of the battery to prolong its useful life.

12 FAULT CODES AND SOLUTION

Code	Error	Status	Observations
E000	AC output short circuit protection	60Hz 888V + Flashing, no output	Solve the problem. Press the AC output button.
E001	Overload protection output	60Hz 888V + DC + Flashing, no output	Press the AC and DC output button to reset.
E002	Low voltage detected in the Battery.	The function indicators and their corresponding outputs are flashing and there is no output.	Battery capacity below 20%, load ≤300W, charge the device in time and restart the corresponding function button to restore
E003	AC output with overvoltage or undervoltage	60Hz 888V Flashing, no output	Press the AC output button.
E004	Abnormal input frequency	60Hz 888V Flashing, no power input	It will automatically reset when the frequency is normal.
E005	General high and low voltage.	Flashing, no power output on all ports.	Press the AC output button.
E006	Inverter in overheating.	60Hz 888V + + Flashing, no power output.	Wait for the temperature to drop, and the system resets automatically.
E010	Overload and short circuit of the Car lighter	Car + Flashing, no power output on all ports	Press the DC output power button to restore.
E011	Overload and short circuit of the USB-A port	USB-A + Flashing, no power output on all ports	Press the DC output power button to restore.
E012	Overload and short circuit of the USB-C port	USB-C + Flashing, no power output on all ports	Press the DC output power button to restore.
E013	Low voltage protection of battery over discharge	E013 + no output at all ports	Restart the device after charging it.
E017	Hardware problem	E017 + flashing	Press the main power button to restore.
E020	BMS communication failure	Flashing, no power output on all ports.	Check the BMS cable
E021	Battery cell with high voltage alarm	E021 flashing, no output at all ports.	Do not use the equipment for the moment and wait for the battery voltage to recover automatically.
E022	Battery cell with low voltage alarm	E022 flashing, no output at all ports.	Connect the AC charging cable and keep charging until the voltage is suitable.
E023	Total battery voltage too high.	E023 flashing, no output at all ports.	Do not use the equipment for the moment and wait for the battery voltage to recover automatically
E024	Total battery voltage too low	Flashing, no power output on all ports.	Connect the AC charging cable and keep charging until the voltage is suitable.
E025	High battery temperature	+ Flashing, no power output on all ports	Do not use the device for the moment and wait for the battery temperature to drop.
E026	Low battery temperature	+ Flashing, no power output on all ports	Do not use the equipment for the moment and wait for the battery temperature to return to normal.
E027	System in overload, AC output is over 2600VA or the total AC and DC output is over 2600W.	60Hz 888V Flashing, AC function off, DC output normal, AC greater than 2600VA or AC+DC greater than 2600W.	Press the AC output button (ON/OFF) to restore.

English

13 STORAGE-USE-MAINTENANCE

1. Please do not store or use the product near water sources, high humidity and metal objects.
2. In order to extend the life of the battery, it is recommended to use or store the product in ambient temperatures of 20º to 30ºC.
3. For a very long storage period, please discharge and charge the equipment every 4-6 months. First fully discharge, then fully charge and now discharge up to 60% battery. This is the best situation for long-term storage.
4. If there are periods of inactivity of more than a year without charging or discharging, the battery could be affected, which would not be covered by the warranty.
5. For safety reasons, do not store or use this product in environments above 45ºC, nor below -10ºC for a long time.
6. For safety reasons do not keep the station in storage or use in direct sunlight when temperatures are high. Always provide a shaded area for the equipment.
7. The equipment has cooling fans. Do not use the equipment in dusty areas such as construction sites. In these cases, use extensions that keep the equipment away from dusty areas.
8. If you use the equipment on a beach, soil or similar, place a sheet of plastic, wood or other material under the station to reduce as much as possible the aspiration of dust/sand/dirt.
9. Never forget to follow the safety instructions in the “safety and disclaimer” chapter of this user manual. It is impossible to reflect all the risks that could be involved in the use of a machine, always be responsible and prudent during its use.
10. If the product is seriously discharged, it will go into sleep mode and cannot be turned on. It would need to be recharged to power it on.

14 WARRANTY

Your product has the following warranty:

- ✓ 3 years for machines billed to consumers (end user).
- ✓ 1 year for machines billed to companies, cooperatives or any other legal entity other than the final consumer (end user).

This warranty covers any manufacturing defect that the generator may have during the period of its warranty period, with the assumption that the maintenance plan is respected and its care is suitable. The warranty covers the repair parts and the necessary manpower.

The battery has a logic of loss of energy storage capacity that varies depending on its conditions of use. This loss of battery performance is a completely normal factor and is not considered a defect, for this reason, the warranty will not assume in any case these losses of performance.

The warranty is cancelled if the machine shows damage, symptoms of being manipulated, lack of care/maintenance, exposure to rain/snow or high humidity.

The guarantee does not cover damage due to deterioration if the user is to use non-original GENERGY ZERO EMISSION accessories, cables or plugs.

The warranty period is defined only by the information on the invoice: type of purchasing entity and date of purchase. Never, it is considered as a reference the purpose or the usage that the product had.

Machines sold online through reseller marketplaces outside Spain and Portugal: Please consult and follow the warranty process instructions indicated on the website where you purchased the product.

The warranty does not cover damage to other property, animals, or people in case of accidents. These circumstances could be covered by the brand's civil liability insurance provided that a failure of the equipment is demonstrated—reliably—having been used according to the instructions in this manual, without manipulation and connected in accordance with the low voltage electrical regulations of the country or area of use.

Declaración de conformidad del fabricante / Declaration of conformity of manofacturer / Declaração de conformidade / Déclaration de conformité / Dichiarazione di conformità / Konformitätserklärung

GENERGY POWER PRODUCTS S.L. Avenida del Ebro, 12 Calahorra 26500 (La Rioja) Spain

Declara que el siguiente aparato cumple con los requisitos básicos adecuados a la seguridad y salud según las directivas de la CE (mostradas en esta declaración) basados en su diseño de origen puesto en circulación por nosotros. Esta declaración se refiere exclusivamente a la maquinaria en el estado en que se ofrece al mercado, y excluye los componentes que se añadan y / o las operaciones realizadas posteriormente por el usuario final.

Declare that the following Appliance complies with the appropriate basic safety and health requirements of the EC Directives (show in this declaration) based on its design and type, as brought into circulation by us. This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

Declaramos que o seguinte equipamento cumpre com os requisitos básicos relativos à Segurança e Saúde, segundo as directivas da CE (incluídas nesta declaração), e o desenho de origem disponibilizado por nós. Esta declaração refere-se exclusivamente ao estado do equipamento quando se coloca no mercado, e excluem acessórios e/ou componentes adicionados pelo utilizador à posteriori.

Nous déclarons que les équipements suivants sont conformes aux exigences de base relatives à la sécurité et à la santé, selon les directives CE (incluses dans cette déclaration), et au dessin original fourni par nos soins. Cette déclaration se réfère exclusivement à l'état de l'équipement au moment de sa mise sur le marché et exclut les accessoires et/ou composants ajoutés postérieurement par l'utilisateur.

Dichiariamo che la seguente apparecchiatura è conforme ai requisiti fondamentali relativi alla salute e alla sicurezza, secondo le direttive CE (incluse nella presente dichiarazione) e il disegno originale da noi fornito. La presente dichiarazione si riferisce esclusivamente allo stato dell'apparecchiatura al momento della sua immissione sul mercato, escludendo accessori e/o componenti aggiunti successivamente dall'utilizzatore.

Erklären, dass das folgende von uns auf den Markt gebrachte Gerät den relevanten grundlegenden Gesundheits- und Sicherheitsanforderungen der EG-Richtlinien (aufgeführt in dieser Erklärung) entspricht. Diese Erklärung bezieht sich ausschließlich auf die Maschine in dem Zustand, in dem sie auf den Markt gebracht wurde und schließt eventuell vom Endbenutzer hinzugefügte Komponenten und/oder nachträgliche Eingriffe aus

- ✓ Denominación / Name / Designação / Designazione / Désignation / Bezeichnung: Cargador solar portátil / Solar panel charger / Carregador solar portátil / Chargeur solaire portable / Caricabatterie solare portatile / Solarpanel-Ladegerät
- ✓ Marca / Brand / Marca / Marque / Marchio / Marke: GENERGY
- ✓ Modelo / Model / Modelo / Modèle / Modello / Modell: GZE2224-C
- ✓ Potencia / Power / Potência / Puissance / Potenza / Leistung: 2400W
- ✓ Nº Serie / Serial-no / Nº serie / N° de série / Numero di serie / Serien-Nr: CARVED INCRAKCASE

Certificados internacionales/international certifications/Certificações internacionais/Certifications internationales/Certificazioni internazionali/Internationale Zertifizierungen: CE\RoHs\MSDS\FCC\UN38.3\Marine report.

Aplicable a Europa / Aplicable to Europe / Aplicável a Europa/ Applicable en Europe / Applicabile in Europa / Gilt für Europa:

- **EMC 2014/30/EU:** TEST STANDAR: EN55032:2015+A11:2020+A1:2020, EN55035:2017+A11:2020, EN IEC 61000-3-2:2019+A1:2021, EN61000-3-3:2013+A2:2021
- **LVD 2014/35/EU:** TEST STANTAR: EN IEC 62368-1:2020+A11:2020
- **RoSH 2011/65/EU** and amendment (EU) 2015/863: ICE 62231-3-1:2013, IEC62321-5:2013, IEC62321-4:2013+AMD1:2017, IEC62321-7-1:2015, IEC 62321-7-2:2017, IEC 623211-6:2015, IEC 62321-8:2017

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