

POWERTECH

MB4110

5000W 5040Wh Portable Power Station W5



Instruction Manual

Please read and save all instructions to ensure safe and effective use of this product.



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DISCLAIMER

Before using this product, please read this user manual carefully to ensure that you fully understand the product and can use it correctly. After reading this user manual, please keep it in a safe place for future reference. Improper use of this product may cause serious injury to yourself or others, or result in product damage and property loss. By using this product, you are deemed to have understood, recognized and accepted all the terms and contents of this document. The Company shall not be responsible for any damages caused by the user's failure to use this product in accordance with this user manual.

In accordance with laws and regulations, the company reserves the right of final interpretation of this document and all documents related to this product. This document is subject to change, update, revision or termination without notice.

Please visit our website for the latest product information.

● The company shall not be held responsible for any damage caused by force majeure (e.g. fire, typhoon, flood, earthquake) or use under other abnormal circumstances by the customer.

Transportation

1. Do not subject this product to severe impacts, vibrations, or drops.
2. Do not carry this product onto a **aircraft**.

Environment

3. Keep the product away from water resources, heat resources, metal objects and chemical substances and dust environment.
4. Place the product on a stable and flat surface.
5. Store the product in a dry, well-ventilated place.
6. Follow the environment temperature requirements specified in the user manual.
7. Do not use the product in an environment with strong static electricity or magnetic fields.
8. Keep the product out of reach of children and pets.

Operation

9. Do not damage, repair, modify or disassemble this product by yourself.
10. Do not use any unofficial or not recommended components or accessories.
11. Remember to turn on the product before connecting your devices.

- 12 .Always disconnect your devices before turning off the product.
- 13 .Do not put fingers or hands into the product.
- 14 .Do not insert wires or other metal objects into the product to prevent short circuits.
- 15 .**Not recommended for medical equipment.**
- 16 .Do not stack any heavy objects on the product.
- 17 .Risk of Electric Shock: Never use the product to power tools to cut or access live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.

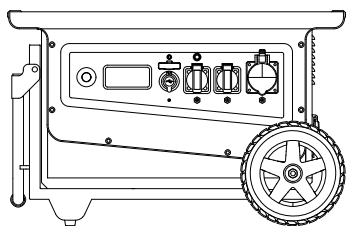
Emergency

- 18 .If the product falls into water or gets wet, stop using it immediately and place the product in a secure, waterproof, and well-ventilated area, then a **battery disposal or recycling service or local council**.
- 19 .If the product is smoking or catches fire, it is recommended to use the fire extinguishers.
- 20 .If the product is overturned and severely damaged, wear insulating gloves to turn it off, and then place the product in an open area far from flammable materials and people, and dispose of it according to local laws and regulations.

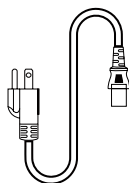
Recycling and Disposal

- 21 .The product with severe damage, malfunction, or depleted battery life should be properly disposed of or recycled.
- 22 .The product contains batteries. Please dispose of the product following local laws and regulations for battery disposal and recycling. Do not dispose of it with household waste to avoid environmental pollution and safety hazards.
- 23 .If possible, ensure the battery is completely discharged (to 0% capacity) before disposing of the product. If not, refrain from placing the battery directly into a battery recycling box. Instead, contact a professional battery recycling company for proper handling.

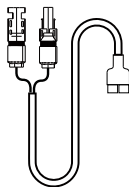
BOX CONTENTS



Power Station*1



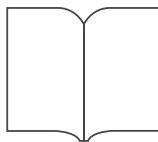
AC Charging Cable *1



MC4 to Anderson
Cable*1



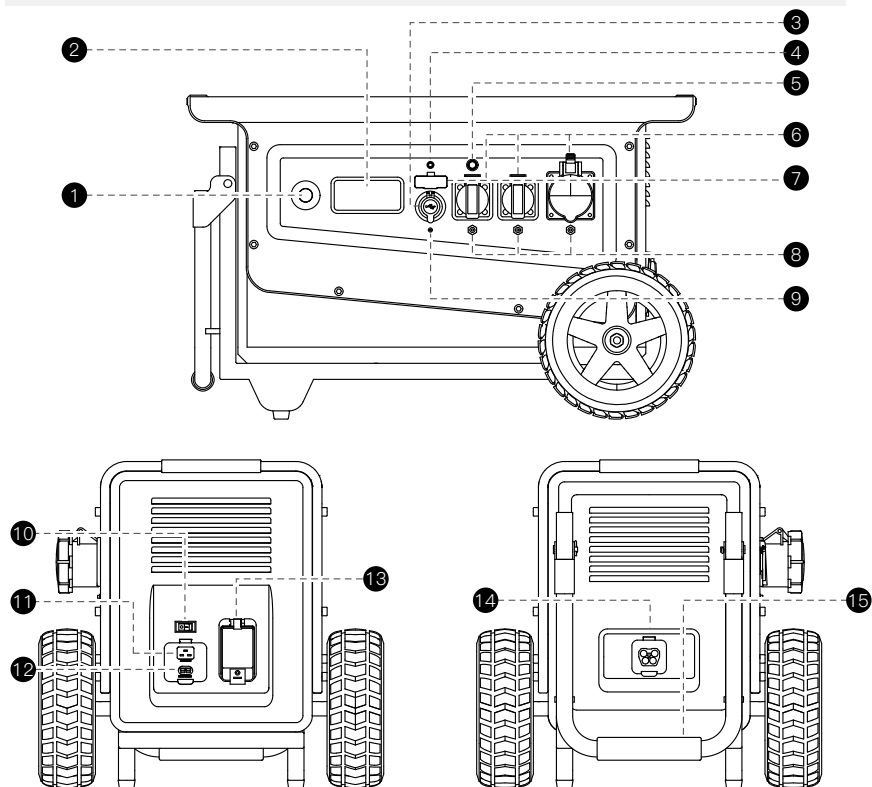
Warranty Card*1



User Manual*1

PRODUCT DESCRIPTION

Overview

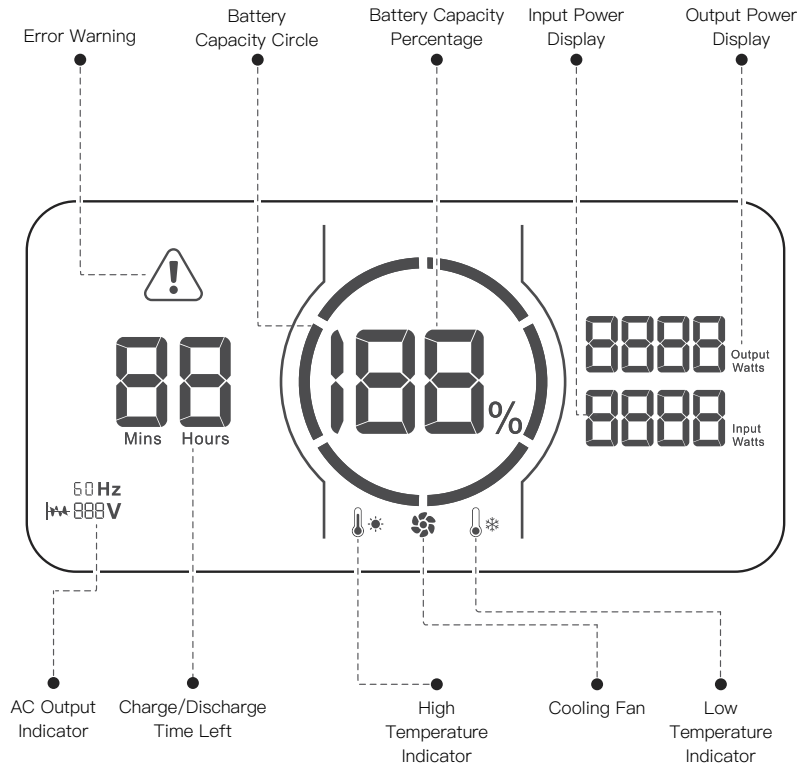


1.	Main Power Button
2.	LCD Screen
3.	USB-A & USB-C Output Port
4.	DC Output Power Button
5.	AC Output Power Button

6.	AC Output Socket
7.	XT90 Output Port
8.	AC Output Protector
9.	Grounding Protection
10.	Fast&Slow Charging Switch

11.	AC Input Port
12.	Solar Input Port
13.	AC Input Circuit Breaker Protection
14.	Extra Battery Port
15.	Handle

LCD Screen

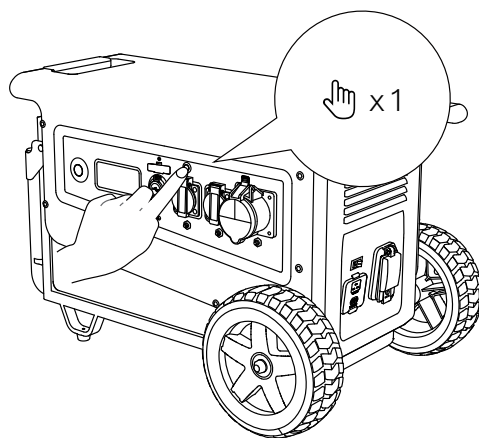
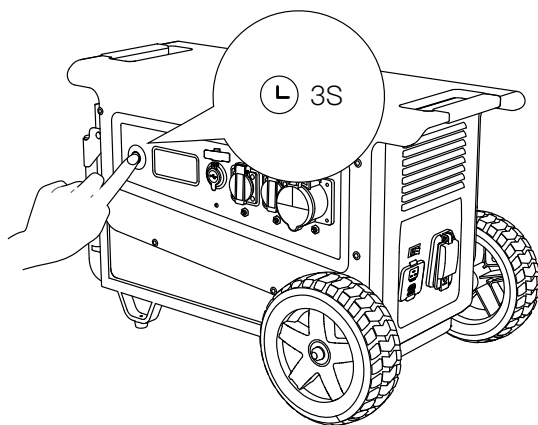


When the power station is charging and discharging simultaneously, it displays the remaining charge time if the input power exceeds output power; Otherwise, it shows a fixed number "99".

USAGE INSTRUCTIONS

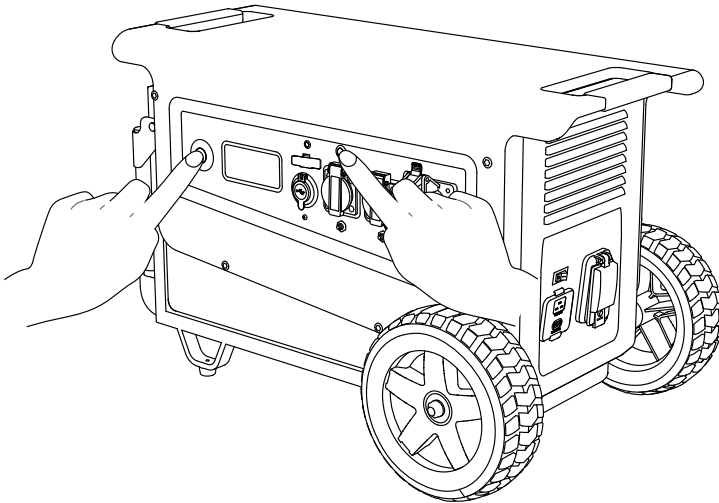
Power ON/OFF

- Press and hold the main power button for 3 seconds to turn the main power on or off.
- When the main power is on, press AC output power button to turn the AC power on or off.
- When the main power is on, short press the main power button to turn the screen on or off.



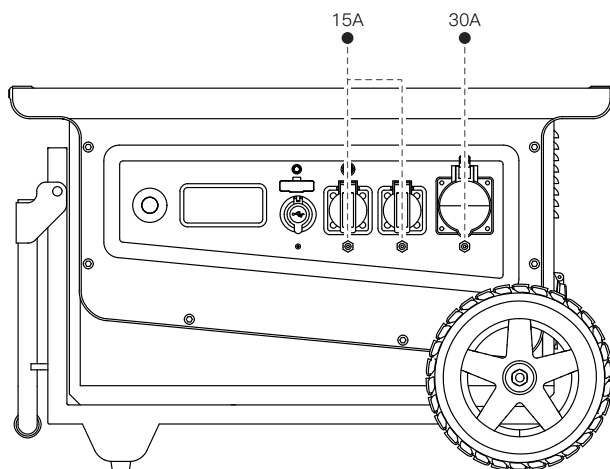
Frequency Switching

- a) Turn off the AC output power.
- b) Simultaneously press and hold AC output power button and main power button for 3–5 seconds, till the frequency sign flashes on the screen.
- c) Press AC output power button to choose frequency “50” or “60”.
- d) Long press the main power to confirm, then the abbreviation “SUC” will flicker, indicating a successful setting.
- e) Long press the main power button to exit the setting mode.



AC Output Protection

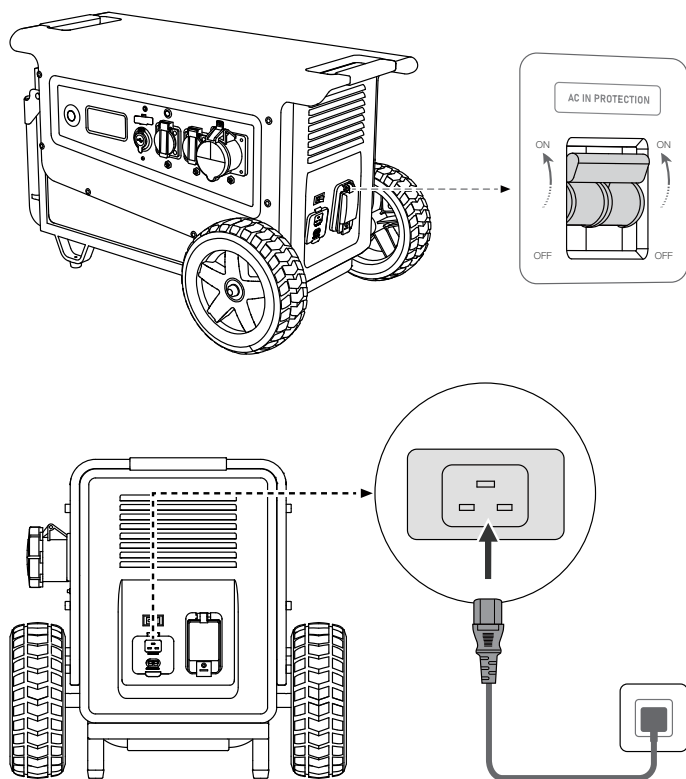
- a) When AC output exceeds 15A/30A, the AC output overload protection button will pop out.
- b) Please disconnect all the connections for safety reason, and ensure that the current is lower than 15A/30A. Then press the button back down to resume using.



RECHARGE METHODS

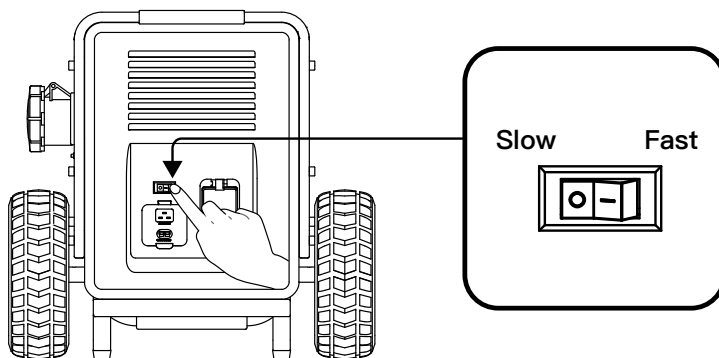
⚡ AC Charging

- Flip up AC IN breaker before using the product.
- Use AC charging cable to connect the power station to an AC wall outlet.
- When AC input exceeds 32A, the AC IN breaker will flip down automatically.
- Please disconnect all the connections for safety reason, and ensure that the current is lower than 32A. Then flip up the AC IN to resume using.



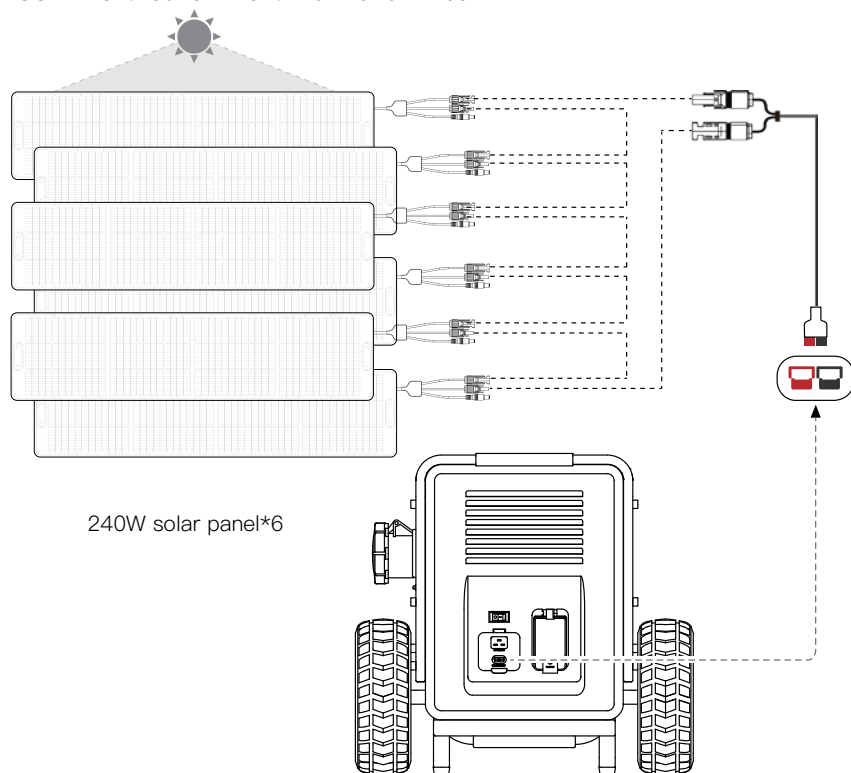
Fast&Slow Charging Switch

- a) Do not switch charging speed when the power station is charged or AC output power is on.
- b) Press fast to enable maximum charging speed at 2500W.
- c) Press slow to switch to slow charging speed at 1250W.



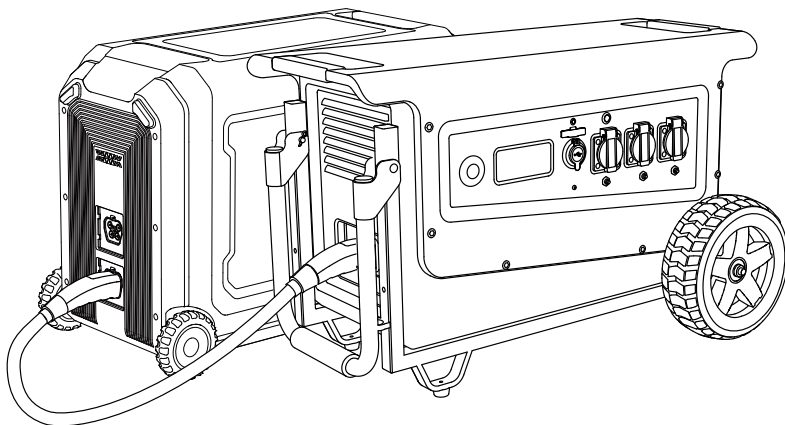
⚡ Solar Charging

- a) Use MC4 to Anderson charging cable to connect solar panels to the power station.
 - b) Connect 6*240W solar panels at most in series to get maximum power.
 - c) The total output of connected panels must not exceed the following: Open Circuit Voltage 148V, Current 15A, max power rating 2100W. Check your individual panel label and multiply the voltage by number of panels if connecting them in series as shown.
- OCV: 148V; Current: 15A; Max Power: 2100W



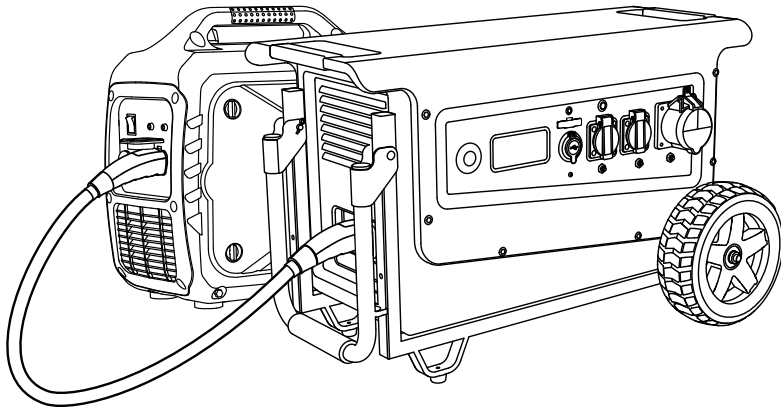
⚡ Extra Battery Charging

- a) Do not connect or disconnect the extra battery when the power station and the extra battery are on.
- b) Use battery expansion cable to connect the extra battery to the power station.



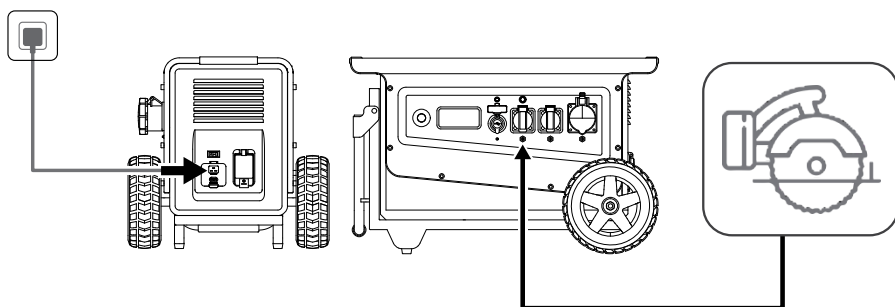
⚡ Gasoline Inverter Generator Charging

- a) Do not connect or disconnect the generator when the power station and the generator are on.
- b) Use battery expansion cable to connect the generator and the power station, and refer to the generator's user manual before using the generator.
- c) When detecting the power station only has 20% capacity left, the generator will start charging the power station automatically; it will stop charging when the power station is charged to 90%.
















































EMERGENCY POWER SUPPLY (EPS)

- a) EPS function is enabled by default with a 20ms switching when grid power is cut off.
- b) Flip up AC IN breaker.
- c) Charge the power station from power grid and connect the device to AC output port as shown in the picture, then press AC output power button on.
- d) Please do not connect the power station to equipment requiring 0ms uninterrupted power supply. Please test and make sure the device is compatible with EPS function.
- e) The total input and output power should lower than 5000W. Otherwise, the power station will shut down in 1 minute.



ERROR CODE & TROUBLESHOOTING

Error Code	Status	Cause	Solution
E000	 +  +  flashing, no output	Short circuit of AC output	Press the AC output power button to restore.
E001	 +  +  flashing, no output	Overload of AC output	Press the AC output power button to restore.
E002	 +  +  flashing, no output	Battery voltage of inverter input is low	Charge the device in time and restart the corresponding function button to restore.
E003	 +  +  flashing, no output	Over voltage and under voltage of AC output	Press the AC output power button to restore.
E004	 +  +  flashing, no input	Abnormal AC input frequency	Automatically restores after frequency returning to normal.
E005	 +  flashing, no output	High and low bus voltage	Press the AC output power button to restore.
E006	 +  +  +  flashing, no output	Over temperature of Inverter	Turn off output power and rest the device to restore.
E020	 +  flashing	BMS communication failure.	Contact after sales service team for further support.
E021	 +  flashing	Over voltage of single battery cell.	Stop charging and discharge until the battery voltage returns to normal.
E022	 +  flashing, no output	Low voltage of single battery cell.	Charge the device until the voltage returns to normal.
E023	 +  flashing	Battery total voltage too high.	Stop charging and start discharging until the battery voltage returns to normal.
E024	 +  flashing, no output	Battery total voltage too low.	Charge the device until the voltage returns to normal.

Error Code	Status	Cause	Solution
E025	 +  +  flashing, no output	High temperature of battery.	The device will automatically return to normal when the temperature returns to normal.
E026	 +  +  flashing, no output	Low temperature of battery.	The device will automatically return to normal when the temperature returns to normal.
E028	 +  +  flashing, no input	Charge over temperature	Charge the device after the temperature returning to normal.
E029	 +  +  flashing, no input	Over temperature of MOSFET.	The device will automatically return to normal when the temperature returns to normal.
E030	 +  flashing	Connect the wrong expansion battery.	Connect correct extra battery to restore.

Situation	Faulty System	Test Method	Faulty Reason	Solution
The Generator Cannot Start or Stop	Fuel System	Turn the fuel cock to "ON", do not connect the battery, turn the engine switch to "RUN", start by hand, the generator has a ignition and does not start or stops soon after starting.	No fuel in the tank	Add fuel
			The fuel tank cap vent knob is not opened	Open the fuel tank cap vent knob.
			Fuel filter blocked	Clean the fuel filter
	Oil System	Turn the engine switch to "RUN", do not connect the battery, pull the handle to start. The oil alarm light flashes for a few seconds, and the generator ignites but does not start.	Low oil level protection	Add oil
	Electric System	Turn the fuel cock to "ON", do not connect the battery, turn the engine switch to "RUN", pull the handle to start, the generator does not ignite.	The spark plug has carbon deposits or moisture.	Clean and dry the spark plug, let it sit for a while and then reinstall the spark plug to start.
			Spark plug does not ignite.	Change spark plug.
Generator operation output is unstable	Electric System	The generator is still in a hot state and does not ignite when started manually.	The generator is in a hot state and needs to open the choke to start.	Wait for the generator to cool down before starting, or remove the right cover and manually open the choke before starting.
		The operating sound of the generator fluctuates greatly and the output is unstable.	Generator connection load overload.	Stop the engine to check the operating environment and generator, check the factors that affect the generator output, and then restart the generator.

Note: If the generator still cannot return to normal after the above maintenance, please seek after-sales help.

1.How to clean the product?

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

2.How to store the product?

Store it in a dry, well-ventilated place at room temperature. The recommended storage temperature is $-4^{\circ}\text{F}\sim 140^{\circ}\text{F}$ ($-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$) and keep it away from water resources, heat resources, metal objects and chemical substances.

3.How to maintain the product?

(1) Charge it to around 60% capacity and turn off the product before storing it.

(2) For long-term storage, it is recommended to fully discharge and then fully charge the battery(0%–100%) once every 3 months.

(3) The warranty will be voided if the product has not been charged or discharged in 6 months.

SPECIFICATIONS

Output	
AC Output	220V~240V 50Hz/60Hz 5000W Max (Surge: 7000W) Bypass Mode: 5000W
USB-A Output	5V 3A,9V/3A,12V/3A 36W Max
USB-C Output	5V/3A,9V/3A,12V/3A,15V/3A,20V/3.25A 65W Max
XT90	12V/30A
Input	
AC Input	190V~250V 50Hz/60Hz 13A Max 2500W Max
Solar Input	12V~148V MPPT: 18V~140V 15A Max 2100W Max
General Info	
Battery Capacity	5040Wh(48V/105Ah)
Battery Type	LiFePO4
Working Temperature	32°F~104°F (0°C~40°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Dimension	Approx. 33.6*20.2*19.8in (852.5*512*502mm)
Net Weight	Approx. 150.57lb (68.3kg)

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 5 Years.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution

Address 46 Eastern Creek Drive, Eastern Creek NSW 2766

Ph. 1300 738 555