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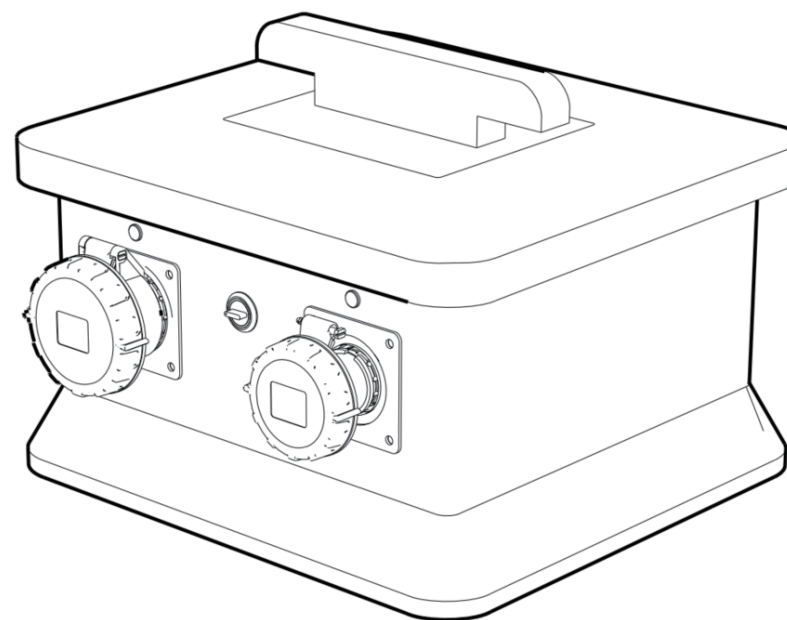
PG3600- Link

User Manual

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PG3600- Link



PowerGiant App



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Documentation Description

Document Overview

This document applies to: users, after-sales service personnel.

This document mainly contains the safety instructions, parameter characteristics, appearance description, use instructions, App intelligent control, maintenance and care, common questions and warranty service terms of high-performance industrial mobile PG3600-LINK.



Before using the equipment, please read this manual carefully to understand the safety information and know the functions and features of the product.

Symbol Definitions

The following symbols may appear in this document. Their meanings are provided in the table below.

Symbol	Meaning
	Warning of general danger
	Read the user manual, safety instructions
	Warning of electric shock
	Warning of Inflammable danger
	Recyclable
	Do not dispose of e-waste with household waste

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1.Safety Instruction

1.1 General Safety Information

  **When operating and maintaining the equipment, please read this manual first and follow all safety precautions on the equipment and in the manual.**

The company shall not be liable for any violation of general safety operation requirements or for violation of safety standards for the design, production and use of equipment.

This equipment should be used in accordance with the design specifications, otherwise it may cause equipment failure, resulting in abnormal equipment function or component damage, personal safety accidents, property losses and other equipment quality assurance scope.

Local laws, regulations and specifications shall be observed when operating and maintaining equipment.

Safety precautions in this manual are only supplementary to local laws, regulations and specifications.

The company shall not be liable under any of the following circumstances:

-  ▪ Do not use the equipment under the conditions of use specified in this manual.
-  ▪ The use environment exceeds the provisions of relevant international or national standards. Unauthorized disassembly, modification of products or modification of software code.
-  ▪ Do not follow the operation instructions and safety warnings in the product and documentation.
-  ▪ Equipment damage caused by abnormal natural environment (force majeure, such as earthquake, fire, storm, etc.).
-  ▪ Transportation damage caused by the customer's own transportation.
-  ▪ Damage caused by storage conditions not meeting product documentation requirements.

1.2 Electrical Safety Information

-  ▪ To minimize the risk of electric shock, the product should be properly grounded (earthed) in accordance with local electrical codes.
-  ▪ The use environment exceeds the provisions of relevant international or national standards. Unauthorized disassembly, modification of products or modification of software code.
-  ▪ To ensure user safety, please refer to the electrical parameters provided in the user manual and do not exceed the limits.

1.3 Use Safety Information

-  ▪ Do not use the equipment outside the normal operating temperature.
-  ▪ It is forbidden to alter, damage or cover the labels and nameplates on the equipment.
-  ▪ Reverse engineering, decompilation, disassembly, adaptation, implantation or any other form of tampering with the equipment software is prohibited.
-  ▪ It is prohibited to study the internal implementation of the equipment in any way, obtain the source code of the equipment software, steal intellectual property rights, etc.
-  ▪ Do not disclose the results of any equipment or software performance tests.
-  ▪ Do not open the top cover during rainy or dusty weather.
-  ▪ In case of fire, immediately evacuate the building or equipment area and press the fire alarm or call the fire alarm number. Do not enter the burning building again.
-  ▪ Do not place equipment in an environment near flammable, explosive gases, smoke, combustible materials, chemicals or vapors, and do not perform any operations in such an environment.
-  ▪ Tighten the grounding wire terminal screw to the specified torque using the proper tool[9].
-  ▪ If the shell is deformed or broken during transportation and use, stop using immediately and contact after-sales service for treatment. Do not make this product bear strong force or impact, and do not pull, twist, entangle, drag or trample on this product.
-  ▪ This product should be used vertically.

2.Parameter Attribute

2.1 Product Introduction

Our company's newly developed PG3600-LINK is an optional accessory for power tools. This product can simultaneously support three PG3600 units for three-phase power output, and can expand the system capacity to 6912Wh. Three PG3600 units used together can form an uninterruptible power supply system, providing users with continuous and stable power. Compared to other three-phase generators on the market, this product has advantages such as quiet operation, safety, environmental friendliness, high mobility, and low-cost energy replenishment.

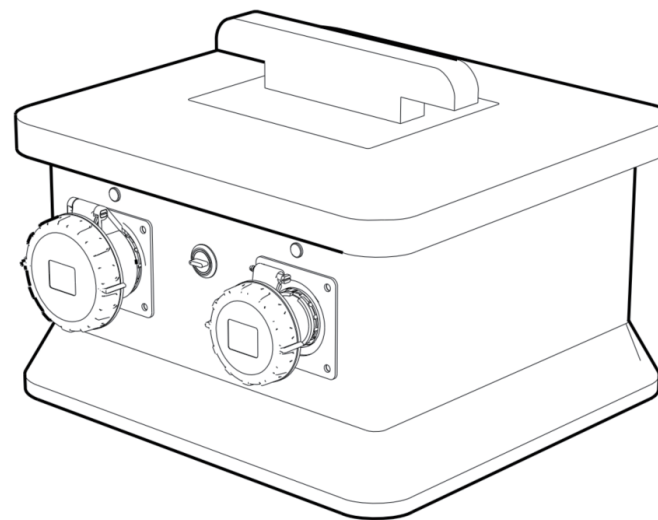


Figure2.1 PG3600-LINK

2.2 Technical Specifications

PG3600-LINK		
Basic Characteristics		
Product Size	/	
Product Weight	< 6.5Kg	
Levels of Protection	CalssII	
Classification of Waterproof	IP 54	
Flame Retardant Rating	V0	
Environmental Certification	RoHS/REACH	
Operating Ambient Temperature	-15℃-40℃	
Storage Ambient Temperature	-20℃-60℃	
Working Humidity	10-90% RH	
Storage Humidity	5-95% RH	
Heat Dissipation Method	Natural Cooling	
Bluetooth Function	2.4G Single Mode	
Working Altitude	≤2000m	
Input Specification		
Number of Input Ports	3	
Rated Input Voltage	230VAC	
Input Voltage Range	230±5VAC	
Rated Input Current	16A	
Rated Input Power	3600W	
Input Frequency Range	50±0.5/60±0.5Hz	
Output Specification		
Work Pattern	Single-phase Mode	Three-phase Mode
Rated Output Voltage	230VAC	400VAC
Output Voltage Range	230±5VAC	400±40VAC
Output Rating	3.6kW	10.8kW (Pure resistive)
Maximum Output	20kW	60kW (Pure resistive)
Output Frequency Range	50±0.5/60±0.5Hz	50±0.5/60±0.5Hz
Phase Imbalance	/	< 7%
No-load Power Consumption	≤10W	≤10W
Switching Period	≤20mS	/

3.Visual Description

3.1 Appearance

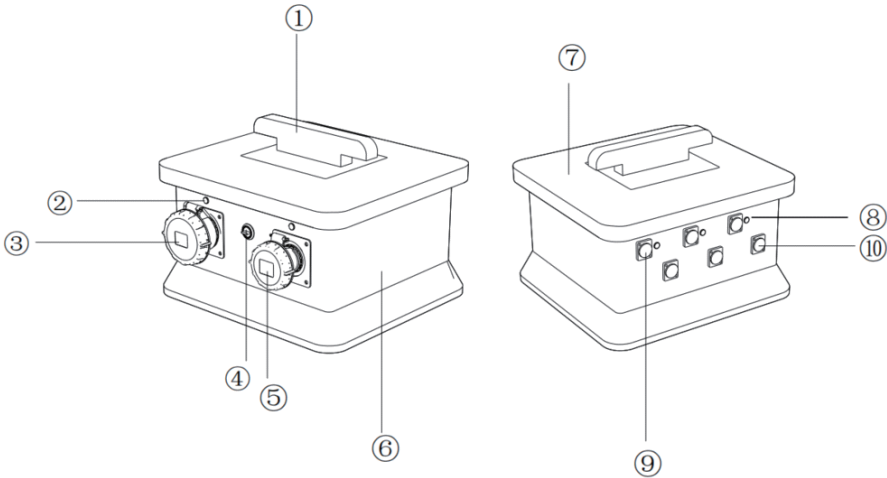
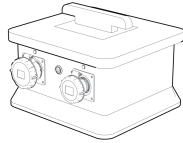


Figure3.1 Description of PG3600-LINK Appearance

①Handle	②Output Indicator Light	③Three-phase Output	④Rotary Switch	⑤Single-phase Output
⑥Shell	⑦Top Cover	⑧Input Indicator Light	⑨Power Input	⑩Signal Output

3.2 Packing List

 PG3600-LINK*1	 Signal Cable*3	 User Manual*1
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4.Instructions

4.1 Product Usage Precautions

- ⚠ The PG3600-LINK must be kept out of reach of children. Children may only use the PG3600-LINK under adult supervision.
- ⚠ Under no circumstances should the PG3600-LINK be opened, especially the second cover of the device. Maintenance and repair may only be carried out by trained and qualified personnel.
- ⚠ Do not modify the control elements, input ports, or output socket interfaces of the PG3600-LINK. Replacement may only be performed by trained professionals.
- ⚠ The PG3600-LINK must not be used as a work platform or temporary workbench.
- ⚠ The PG3600-LINK must not be used as a step or climbing aid.
- ⚠ Do not immerse the PG3600-LINK in water or mud.
- ⚠ The PG3600-LINK must not be stored at temperatures above 65 °C, and must be kept away from external heat sources such as prolonged solar radiation, open flames, or radiant heaters.
- ⚠ To prevent injuries caused by tipping or falling, the PG3600-LINK must be properly secured before use. Ensure that the connected cables are long enough and are not under tension or stress.
- ⚠ Do not use or store the PG3600-LINK in explosive or potentially explosive environments.
- ⚠ If the PG3600-LINK has been dropped, it must be inspected for damage before further use. If the housing is deformed or cracked, the product must not be used. Please contact our company or your distributor immediately for further instructions.
- ⚠ The PG3600-LINK may only be dismantled, opened, or disassembled under the guidance of qualified professionals.
- ⚠ Before each commissioning or operation, inspect the PG3600-LINK and its accessories for any damage.
- ⚠ During operation, ensure that the LED status indicators function normally. If the LED status is abnormal, stop using the PG3600-LINK immediately.
- ⚠ Always comply with local regulations governing the installation of low-voltage systems and the safe operation of electrical loads.
- ⚠ All connected cables must be properly routed to avoid being pinched, crushed, or stepped on.
- ⚠ The PG3600-LINK should only be operated using the supplied cables. If you have any questions, please contact our company or your distributor.
- ⚠ If the power cable shows any defect, such as damaged insulation, it must be replaced immediately.
- ⚠ The PG3600-LINK cables are not recommended for powering life-support or safety-critical medical equipment, including but not limited to ventilators or artificial lung machines. If used with general medical equipment, ensure that the PG3600-LINK is operating normally at all times.
- ⚠ Do not clean the product with water jets, especially high-pressure cleaners.
- ⚠ Prevent the PG3600-LINK from coming into contact with chemicals, fuels, or lubricants.
- ⚠ If small parts generated from product damage are swallowed, seek medical attention immediately.
- ⚠ Do not use this product if the power cable is damaged.
- ⚠ When not in use, the equipment should be stored indoors and must not be stored outdoors.
- ⚠ Do not smoke, light matches, or create sparks near the power supply.
- ⚠ The PG3600-LINK should not be stored inside a vehicle for extended periods.
- ⚠ When moving the PG3600-LINK, use the handle [1] to assist with transportation to avoid personal injury during movement.

4.2 Discard

-  ▪ Whenever possible, the PG3600-LINK should be disposed of through an authorized electronic waste recycling facility. Please follow the local laws and regulations regarding the recycling and disposal of electronic waste.
-  ▪ If the PG3600-LINK becomes non-functional due to product failure within the warranty period, please contact our after-sales service team for further assistance.
-  ▪ If the warranty period has expired and the device is damaged and cannot operate normally, the product should be disposed of accordingly.
If repair is required, please contact our after-sales service team. Unauthorized disassembly or dismantling of the device is strictly prohibited.

4.3 Product Operation

Description

Setup Instructions

	Check that the outer packaging is intact.
	Open the package.
	Use the handle to remove the three-phase box from the packaging. Check whether the PG3600-LINK enclosure, user manual, and cables are damaged.
	Connect the cable plug to the PG3600-LINK first (turn counterclockwise to disconnect), and then connect it to the PG3600.
	Ensure the PG3600-LINK output port is properly connected to the load.
	Turn the rotary switch to the corresponding output port.

4.3.1 Standby, Fault and LED Status Indication

LED	LED Status	Description	Action
Input LED	Off	①The discharge button of the corresponding industrial power station is not pressed. ②The SOC of the corresponding industrial power station is 0. ③Fault in the corresponding industrial power station. ④Check whether the corresponding industrial power station is discharging properly.	①Check whether the corresponding industrial power station is discharging properly. ②Check whether the corresponding power cable is damaged. ③If the problem persists, contact after-sales service.
	Flashing	①The rotary switch is in standby mode. ②Signal cable is not connected. ③Signal cable is not connected. ④Signal cable fault. The connected AC voltage is not from the industrial power station. (e.g., grid or other energy storage output);	①Condition is normal and requires no action. ②Check whether the signal cable is connected. ③Check whether the signal cable phase sequence matches the power cable. ④Check whether the signal cable is functioning properly. Verify that the AC voltage input is from the tool power source.
	On	① Rotary switch in single-phase mode: the corresponding channel is outputting, and the other channels flash in a pattern of three long and one short. ②Rotary switch in three-phase mode: all channels are outputting.	Normal operation. No action required.
Output LED	Off	①All input channels are powered off. ②Device malfunction.	Re-power the corresponding channel. If the LED still does not light, contact after-sales support.
	Flashing	①Three-phase mode is normally outputting, but an input abnormality is detected (including power loss or disconnected signal cable). ②Fault code is not 0. ③Sustained operation with large loads causing severe voltage distortion.	①Confirm correct input voltage. ②Check for device faults. ③Turn off the load and restart.
	On (steady)	①Normal output.	①Normal condition, no action required.
Output LED	Off	①Device is not powered or power is off. ②Powered on but LED does not light, device malfunction.	①Contact after-sales support.
	On (steady)	Device operating normally	Normal condition, no action required

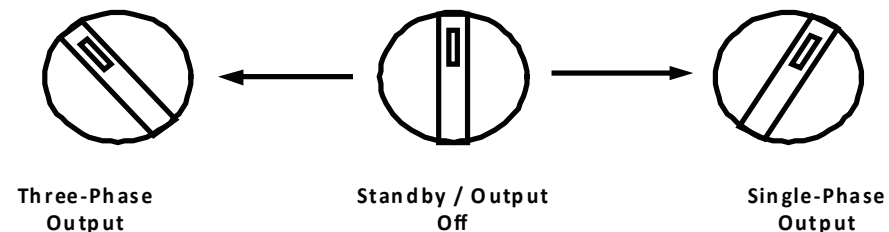


Figure 4.1 PG3600-LINK Switch Status Diagram

4.3.2 Standby / Output Off State

- When the PG3600-LINK is in Standby / Output Off mode, the status LED is steady on, the input LEDs of the corresponding channels flash, and all output LEDs are off.

4.3.3 Three-Phase Output State

- When the PG3600-LINK knob is rotated to the left for Three-Phase Output, the status LED is steady on, the input LEDs of the corresponding channels flash, the three-phase output channel LEDs are steady on, and the three-phase output ports provide three-phase AC power.

4.3.4 Single-Phase Output State

- When the PG3600-LINK knob is rotated to the right for Single-Phase Output, the status LED is steady on, the input LEDs of the corresponding channels flash, the three-phase output channel LEDs are steady on, and the single-phase output ports provide single-phase AC power.

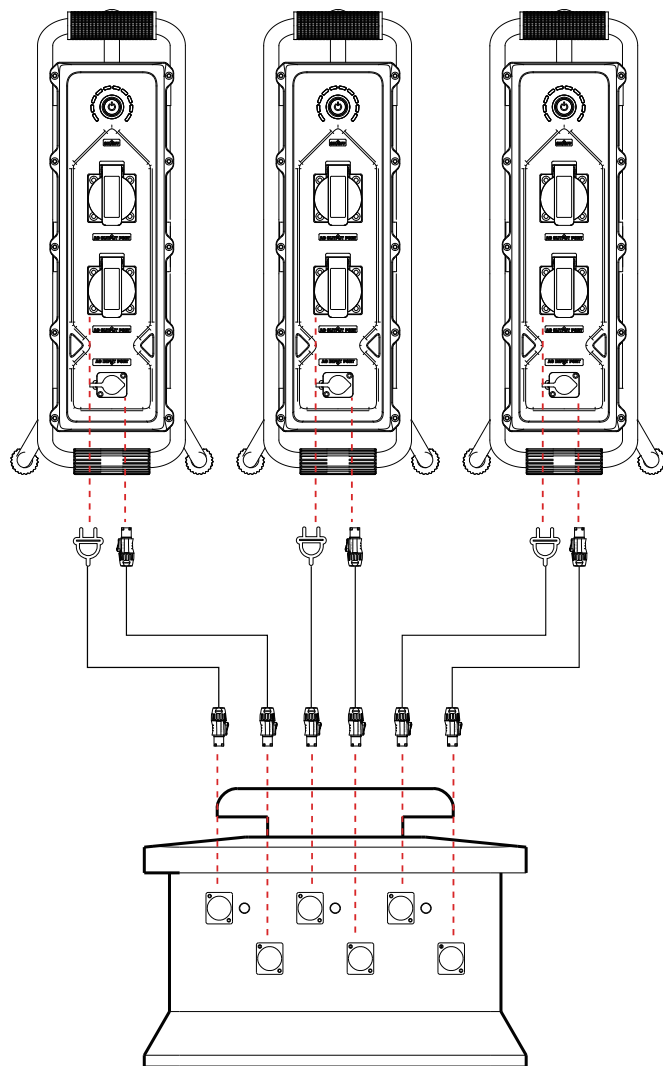


Figure4.2 PG3600-LINK Wiring Diagram

5. App Intelligent Control

- The PowerGiant App provides status monitoring and remote control services for your PG3600. You can search for "PowerGiant" in the mobile app market or scan the QR code below to download the PowerGiant App and learn more about the latest product information.



6. Maintenance and Care

Storage

- Before storage, set the device to standby/off mode, disconnect all cables and loads, and lock all covers.
- If the device will not be used for a long time, lock all covers and store it in an environment with a temperature of 20°C to 30°C and low humidity.

Transportation and Shipping

- Before transportation, set the PG3600-LINK to standby/off, disconnect all cables and loads, and lock all covers.
- Ensure that the operating state of the product does not change during transport. The product can only be transported if it is undamaged. Additional rules from the transport service provider must be followed.
- If a return is required due to defects or malfunctions, please contact our company or your distributor.

Cleaning and Maintenance

- Before cleaning, set the PG3600-LINK to standby/off, disconnect all cables and loads, and lock all covers.
- It is allowed to wipe the product with a clean, dry cloth. Ensure that the product is not washed with running water; specifically, do not use high-pressure water jets. Solvents or other highly reactive chemicals are not permitted.

Repair Responsibility

- During the product warranty period, if the product is deformed or damaged, after-sales repair can be requested. The manufacturer or distributor provides repair services for purchased products, with a reasonable repair period of two years from the date of sale, excluding consumable parts such as input/output sockets.
- During the repair process, if it is found that the damage was caused by improper use or maintenance by the buyer, the manufacturer or distributor reserves the right to refuse free repair services and charge the buyer for the relevant repair costs.

6. Frequently Asked Questions

Q1 Can the product be carried on passenger airplanes, trains, or buses?

Yes, it can.

Q2 Why cannot the load be used even when its power is within the rated output range of the product?

This may be caused by the load's startup peak power exceeding the product's specified limit.

Q3 Why is there noise during operation?

The product contains relays. A clicking sound ("tick-tick") during switching is normal.

Q4 Does the product include leakage and overload protection?

Yes, the product is equipped with built-in leakage protection and overload protection devices.

Q5 How to determine if the product is operating normally?

If the power/status indicator LED is continuously lit, the product is functioning normally.

Q6 Does the product support simultaneous single-phase and three-phase output?

No, simultaneous single-phase and three-phase output is not supported.

Q7 How to prevent damage from condensation?

The product has an insulated enclosure. When it is moved suddenly from a low-temperature environment to a warm and humid environment, condensation may form on the internal components and surface. Condensation entering the product can cause short circuits, component corrosion, or permanent damage. To prevent this, follow these steps:

1.Environmental transition: After moving the product from a cold environment (e.g., outdoors in winter, air-conditioned room, or vehicle) to a warm environment, do not power it on immediately.

2.Waiting period: Place the product in a dry, ventilated room at room temperature for 4–6 hours (adjust depending on temperature difference and humidity) to allow the internal temperature to stabilize and any condensation to evaporate.

3.Inspection: Ensure that the product is completely dry both inside and out before connecting power.



Note: Damage caused by ignoring this instruction is not covered under warranty.

6.1 Warranty Terms and Conditions

The three-phase unit manufactured by our company is covered under a two-year warranty from the date of delivery. During this period, if any manufacturing defects, product quality issues, or malfunctions occurring under normal use in accordance with the user manual are found, our company will provide necessary refund, repair, or replacement.

This warranty does not apply in the following cases:

- Inability to provide the product warranty card or valid proof of purchase.
- Malfunction or damage caused by failure to follow the operating instructions in the product manual.
- Malfunction or damage resulting from improper use.
- Malfunction or damage caused by incorrect maintenance or repair.
- Malfunction or damage caused by unauthorized repairs, modifications, disassembly, or installation.
- Malfunction or damage resulting from improper transportation, handling, or accidental drops after delivery.
- Damage caused by environmental conditions or natural disasters, including but not limited to fire, earthquake, flood, lightning, or other environmental factors.



Notes:

- If the device malfunctions, please contact your distributor for assistance.
- Product appearance issues (e.g., paint damage, scratches, dents, or breakage), consumable parts, and accessories are not covered under this warranty.



Precautions:

- Although it is not mandatory to use a designated authorized service center for all maintenance or repair work, improper or insufficient service may void this warranty or result in repair costs being excluded from coverage.
- Designated authorized service centers are officially evaluated and approved by our company, employ professional technicians, and are licensed to operate on our products. Therefore, it is strongly recommended to perform all maintenance, service, and repairs at designated authorized service centers to ensure warranty validity.

7. Warranty Service Terms

7.1 Limitation of Liability

- This warranty constitutes the sole express guarantee provided by our company.
- For defects covered under this warranty, the company’s obligation is limited to necessary repair or replacement of the product and its internal components, which constitutes the exclusive remedy under this warranty.
- The company reserves the final decision on whether to repair or replace components, and whether to use new, refurbished, or modified parts.
- To the extent permitted by applicable law, the company shall not be liable for any indirect, incidental, special, or consequential damages related to the product, including but not limited to transportation costs to and from the authorized service center, time loss, lost income, loss of use, personal or commercial property loss, emotional distress, or commercial losses (including but not limited to lost profits or revenue).
- Any changes in dimensions or parameters resulting from ongoing product upgrades shall be based on the latest documentation, and the company reserves the right to make such changes without prior notice.

7.2 Warranty Card

Please keep this card properly. It must be presented together with the official purchase invoice or purchase contract when requesting repair or service for it to be valid.

Warranty Card

Product Name: _____

Model Number: _____

Serial Number: _____

Manufacturing Date:
Year: _____ Month: _____ Day: _____

Customer Name: _____

Contact Number: _____

Customer Address: _____

1.Warranty Service: _____

After-sales Service: _____

Customer Signature: _____

☐Satisfied ☐Unsatisfied

2.Warranty Service: _____

After-sales Service: _____

Customer Signature: _____

☐Satisfied ☐Unsatisfied