

PowerGiant 3600

High-Performance Industrial Mobile Power Station

User Manual - 1.0

Version 1.0

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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 PowerGiant 3600 high-performance industrial mobile power station.



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.



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.).

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.



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. thing .



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 can be used horizontally and vertically.

2. Parameter Attribute

2.1 Product Introduction

The PowerGiant 3600, our company's newly developed high-performance industrial mobile power station (PG3600), features a 230V AC input/output interface with a rated capacity of 2304Wh and peak power output up to 20kVA, delivering safe and stable electrical power. With a lightweight design weighing just 24kg and IP54-rated protection against dust and water, it adapts to various harsh environments. The device supports remote monitoring via App, Bluetooth connectivity, and Remote Firmware Upgrade. Its built-in multi-level safety protection and air-cooled cooling system ensure an overall efficiency of 97%, requiring only 2.5 hours for full charging. Perfect for construction sites, outdoor activities, agricultural operations, and emergency rescue scenarios, this power station provides users with efficient and reliable energy support.



Figure 2.1 PowerGiant 3600 High-Performance Industrial Mobile Power Station

2.2 Technical Parameters

PowerGiant 3600 High-Performance Industrial Mobile Power Station	
Essential parameter	
Product Model	PHS3600P series
Weight	24kg
Dimensions	526 x 485 x 211 mm
Rated energy	2304Wh
IP Rating	IP54
Heat dissipation mode	External natural cooling (internal air cooling)
Altitude of work	2,000 meters
Power indicator light	10 power indicator lights
Meet standards	IEC/EN 62477-1, IEC62619, IEC 60730 Annex H, UN38.3
	EN 61000-6-1/-2/-3/-4, EN 301489-1/-17 EN 300328 EN 62479
Output specifications	
Rated output voltage	230V AC, pure sine wave
Rated output frequency	50Hz
Rated output power	3600W
150% rated load	4000W~5400W, >500s
200% rated load	5400W~7200W, >50s
250% rated load	7200W~9000W, >10s
Other rated loads	>9000W, >1s
Peak power	20kVA (power factor 0.8)
Output peak current	140A (maximum instantaneous value)
No-load power consumption	≤30W
Input specification	
Rated input voltage	230V AC
Rated input frequency range	45~65Hz
Rated input power	1200W
Power factor	0.99
Rated input current	6A
Overvoltage Category	OVC II

Battery specifications	
Battery type	Li-Ion
Battery model	INR22/71/[(20S)8S]H/-10+50/60
Nominal voltage	72V*8
Rated energy	2304Wh
Battery capacity	4Ah
Maximum discharge current	35A
Type of protection	Overcharge, Over discharge, Over current, Over temperature, Short circuit, Over voltage and other multiple protection
Bluetooth specifications	
Bluetooth frequency range	2400MHz~2483.5MHz
Bluetooth transmission power	Max 9.81dBm
Running temperature	
Battery operating temperature	Charge 5°C~55°C, discharge-15°C~60°C
Working Temperature	Charge 5°C~40°C, discharge-15°C~55°C
Storage temperature	-20°C~50°C
Working humidity	10~90% RH
Storage humidity	5~95% RH
Protection class	Class I
Power supply system	TN and TT
Input grid protection current	16A
Indoor pollution levels	PD2
Outdoor pollution levels	PD3



Safety Note: For TYPE G output sockets, the maximum load per socket is 13A/3000W.

3.Visual Description

3.1 Appearance



Figure 3.1 Description of PG3600 Appearance

① Handle	② Power state indicator	③ Power on/off switch	④ AC output port	⑤ AC input port
⑥ Front Cover	⑦ Back Cover	⑧ Box	⑨ Grounding port	

3.2 Packing List

PG3600	Charging cable 1800mm-3×2.5mm ² -H05VV-F	Grounding cable 500mm-3.3mm ² -AWM3135	User's manual

4.Direction for Use

4.1 Product Usage Precautions

4.1.1 Important Precautions

-  Keep PG3600 out of children's reach! Children should be supervised when using PG3600.
-  Under no circumstances should the PG3600 be opened, especially the front cover [6] and rear cover [7]. Maintenance and repair can only be performed by trained professionals.
-  Do not modify the control elements, input and output socket interfaces of PG3600. They can only be replaced by trained professionals.
-  The PG3600 cannot be used as a working base or temporary workbench.
-  PG3600 shall not be used as a stepping or climbing aid.
-  PG3600 shall not be immersed in water or mud.
-  If the battery catches fire, it must be put out with water. If possible, the PG3600 must be completely submerged in water. Call the fire department and inform them that the lithium-ion battery is burning.
-  If the PG3600 is damaged or used improperly, harmful gases may escape. The harmful gases may irritate the respiratory tract. In this case, fresh air must be provided and medical attention should be sought immediately if discomfort occurs.
-  If not handled properly, the liquid may leak from the PG3600 battery. If the liquid comes into contact with skin, rinse it off with water. If the liquid comes into contact with eyes, seek immediate medical attention. Spilled battery fluid may cause skin irritation or burns.
-  The PG3600 must not be stored at temperatures above 65°C and must be kept away from external heat sources (e.g. prolonged solar radiation, fire sources, radiative heaters). Contact with ambient air must not be restricted (e.g. by operation in a sealed container).
-  Do not use or store PG3600 in areas where explosion is likely to occur.
-  To prevent injury from PG3600 tipping over or falling, the PG3600 must be secured before use. Ensure that the cable connected to the PG3600 is long enough and that the connected cable is not under pressure.
-  In any case, if the PG3600 falls and is dropped, it must be inspected for damage. If deformation or cracking of the casing occurs, the product should not be used. Exceptions include damaged handles [1]. For all other types of damage, ensure the main power switch button remains off and contact our company or your authorized dealer immediately for troubleshooting assistance.
-  The PG3600 can only be removed, opened or disassembled under the guidance of a professional.
-  Before each debugging, check whether PG3600 and its accessories are damaged.
-  When in use, ensure that the power status indicator is functioning properly. If the LED light is abnormal, stop using PG3600.
-  Local regulations governing the installation of low-voltage systems and safe operation of electrical loads must always be observed.
-  All connected cables must be properly arranged to avoid compression and trampling.
-  The PG3600 can only be charged using the attached charging cable. If you have any questions about this, please contact us or your agent.



If the power cord is defective, such as a damaged insulation layer, replace the charging cable immediately.



PG3600 is not recommended for the power supply of medical equipment related to personal safety, including but not limited to ventilators, artificial lungs, etc. If used for general medical equipment, please pay attention to the power status and ensure that the power is not exhausted.



Do not use water jet to clean this product, especially do not use high pressure cleaner to clean this product.



PG3600 must be kept away from chemicals, fuels and lubricants.



Seek immediate medical attention after swallowing a small part damaged by PG3600.



Do not use this product if the power cable is damaged.



When the equipment is not in use, it should be stored indoors, not outdoors.



Do not smoke, light a match or spark near the power supply.



Should not be stored in the car for a long time.



During discharge use of PG3600, the ground protection line should be connected to the ground.



When moving the PG3600, use the handle [1] to assist the movement to avoid personal injury during the movement.

4.1.2 Discard



If conditions permit, please ensure the PG3600 battery is completely discharged before placing it in the designated recycling bin. The PG3600 contains hazardous batteries, which must not be disposed of in regular trash bins. For specific regulations, please follow local battery recycling and disposal laws and regulations.



If the battery cannot be completely discharged due to PG3600's own fault, do not discard the battery directly into the battery recycling box. Contact a professional battery recycling company for further treatment.



If left over, the battery will not start. Please dispose of it as waste.

4.2 Product Usage

Explanation

The first charge is critical to the battery performance of the product. Please fully charge the PG3600 before first use.

	Check whether the packaging shell is intact.
	Open the package at the top side .
	Remove the tool power from the package through the handle to check for damage to the PG3600 housing, instruction manual and charging cable.
	The charging cable plug must first be connected to the PG3600. (the plug should be removed by rotating counterclockwise)
	Connect the charging cable to mains electricity and wait until all LED lights remain white.

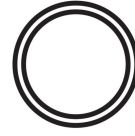
4.2.1 Power on, Power off and LED status display

Icon display	LED pigment	Explanation
	White	1.Ten white LED lights slowly breathing and flickering, indicating that the device is undergoing self-test.
		2.In standby state, display the current battery power (1 LED light is lit every 10% of the battery power).
		3.During charging operation, according to the current power of the device, one LED light will be lit every 10% of the power, and the corresponding white LED will flow and flash. For example, when the power is 20%, the first and second LED lights will be flickering in turn; when the power is 70%, the first to seventh LED lights will be flickering in turn.
		4.During charging, when the device is fully charged, 10 LED lights are always on.
	Green	1.During discharge operation, one LED light is lit every 10% of the current power of the device.
	Yellow	1.The first LED light is yellow, indicating that the power value of the device is 1% -5%.
		2.The 5th and 6th LED lights are yellow, indicating an internal warning of the equipment.
	Red	1. Only the first red light is on, which means that discharge is prohibited. At this time, the power is 0%.
		2.10 If the red light is always on, it means that the equipment has a fault. You can restart the equipment. If the LED light is still in this state after restarting, contact the after-sales personnel.

	3. If the red light 1/3/5/7/9 is always on during use, contact the after-sales personnel to unlock it.
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ON (Short Press, Key Time <1s)



OFF (Long Press, Key Time > 2s)

Figure 4.1 Schematic Diagram of PowerGiant 3600 Switch Operation

4.2.2 Standby State

- When the PG3600 is off and the charging cable is not connected, short press the button. The PG3600 will first perform a self-test. During the self-test, the LED light is The white device has slow breathing and flickers. After self-test, no fault is found, then it switches from the closed state to the standby state.
- When the PG3600 is in the charging state, unplug the charging cable and the PG3600 enters the standby state.
- If the PG3600 is in standby state, the LED light color is white and always on. If no operation is performed for two minutes, the PG3600 will automatically shut down.
- If PG3600 is in standby state, the first LED light is red, which means that the power of PG 3600 is 0% and it needs to be connected to a charging cable for charging.

4.2.3 Discharging State

- When the PG3600 is in standby state and the charging cable is not connected, short press the button, and the PG3600 will switch from standby state to discharge state.
- When the PG3600 is in the charging state, unplug the charging cable, and the PG3600 enters the standby state. Press the button briefly, and the PG3600 will switch from the standby state to the discharging state.
- If the PG3600 is in the discharging state, the color of the LED light is green and the corresponding maximum power LED light flashes (before PG3600 is in the discharging state, it is necessary to connect the grounding protection line, as shown in Figure 4.2).

4.2.4 Charging State

- When the PG3600 is in the power-off and standby state, it will automatically enter the charging state when connected to the power grid through the charging cable.
- When the PG3600 is in the discharging state, if it is connected to the power grid through the charging cable at this time, the discharge output of the PG3600 will stop immediately and automatically enter the charging state.
- If the PG3600 is in a charging state, the color of the LED light is white and the corresponding LED lights

flash in turn. when the power is full, the 10 white LED lights are always on (if the charging cable is connected, the PG3600 will automatically enter the charging state, and the charging cable connection mode is shown in Figure 4.3).

4.2.5 Power-off State

- If the PG3600 is in standby state, press the button for a long time or wait for 2 minutes without any operation to enter the power-off state.
- If PG3600 is in the discharging state, press the button to enter the power-off state.
- If the PG3600 is in the charging state, remove the charging cable and enter the shutdown state.

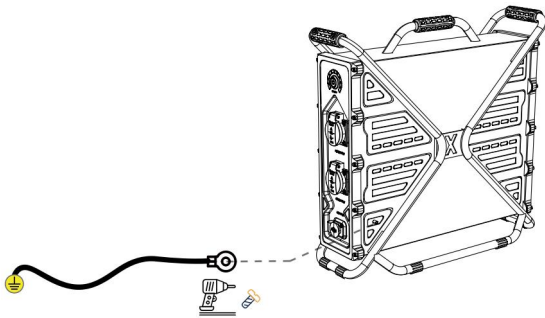


Figure 4.2 PG3600 Grounding Diagram

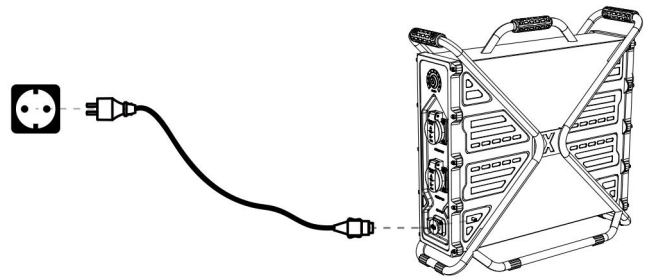


Figure 4.3 Schematic Diagram of PG3600 AC Charging

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 Upkeep

Storage

- Before storage, adjust the equipment to shutdown status and remove connected cables and loads.
- If you do not use it for a long time, please charge the battery to 60% before storage. If you leave it idle for a long time when the battery is severely low, it will cause irreversible damage to the cell and shorten the service life of PG3600.
- Charge the product at least once every six months.
- To prolong service life, store the product in a low humidity environment at 20°C to 30°C temperature.

Transportation and shipment

- Before transportation, turn off the PG3600 and remove connected cables and loads.
- To ensure that the operating status of the product does not change during transportation, the product can only be transported in undamaged condition. Additional rules of the transportation service provider must be observed.
- If a return is required due to a defect or failure, please contact us or your distributor.

Cleaning and maintenance

- Before cleaning, turn off the PG3600 and remove connected cables and loads.
- Close the cover of the AC input and output port.
- This product may be wiped with a clean, dry cloth. Ensure that running water is not used for cleaning; in particular, high-pressure water guns are not allowed to be used for cleaning. Solvents or other reactive chemicals are not allowed.

Maintenance responsibility

- During the product warranty period, if the product is deformed or damaged, you can apply for after-sales maintenance. The manufacturer or distributor will provide maintenance services for the purchased products. The reasonable maintenance period is two years from the date of sale or until the product has not reached 800 cycles of charge/ discharge, except for fragile parts such as input/output sockets.
- During the maintenance process, if the product is found to be damaged due to improper use or maintenance by the buyer, the manufacturer or distributor has the right to refuse to provide free maintenance service and charge the buyer for the relevant maintenance fee.

7.Frequently Asked Questions

Q1 Products be carried on passenger planes/ trains/buses?

No. This product contains lithium battery. According to the transportation standard regulations, the carrying of lithium battery products should not exceed 100Wh.

Q2 Why is the load power within the rated output power range of the product but not available?

The system may be deeply fed and needs to be recharged to activate.

Q3 Why is there sound when using?

The PG3600 has a built-in circulating fan that starts to cool the battery when the temperature is high. The fan can be set to silent mode through the App.

Q4 What type of battery is used in the product?

The product uses ternary lithium battery.

Q5 How to determine whether the product has been charged?

The indicator light will flash when charging.

Q6 How to charge this product?

Plug the product into the charging cable and connect it to the grid. The PG3600 will automatically charge.

Q7 Can the PG3600 supply power to the load after plugging in the charging cable?

If the PG3600 is plugged with a charging cable and connected to the grid, it cannot be discharged. However, if the charging cable is plugged but not connected to the grid, it can be discharged.

Q8 How to extend the battery cycle life?

You can set the upper limit of charging and the lower limit of discharging through the App. It is recommended to set the upper limit of charging as 90% and the lower limit of discharging as 10%.

Q9 How to open the AC output?

When the power is turned off, press the button briefly. After the power is turned on, PG3600 will perform self-test. At this time, the LED light is white and slowly breathing. When the LED light is white again, press the button. When the LED light is green and always on, and the LED light corresponding to the highest power is flashing, the AC output is turned on.

When in standby, the LED light is white and always on. At this time, press the button. When the LED light turns green and the LED light corresponding to the highest power flashes, the AC output is turned on.

When charging, first unplug the charging cable and then press the button. When the LED light is green and the LED light corresponding to the maximum power is flashing, the AC output is turned on.

Q10 Why can't I turn off the computer by pressing the button?

Check whether the charging cable is disconnected from the power grid. If PG3600 is plugged in with the charging cable and connected to the power grid, the button is invalid and the charging cable needs to be unplugged before shutting down.

Q11 Why do I need to press the button twice to get AC output when I start up?

To prevent user error, if PG3600 is in a discharge state, it will lead to long-term battery feeding.

Q12 Which power sources does PG3600 support?

Support charging of mains electricity, frequency conversion generator and portable energy storage power supply.

Q13 Why is it not charging when I plug in the charger?

The cell temperature may be high enough to cause the over-temperature fault. The over-temperature fault can be checked through the APP. If the over-temperature fault is confirmed, the charging will not be performed.

Q14 How to prevent damage from condensation?

This product features a metal enclosure. When it is moved suddenly from a low-temperature environment to a warm and humid room-temperature environment, moisture may condense into water droplets on and inside the product. This phenomenon is known as "condensation."

If condensation forms inside the product, it can lead to circuit short circuits, component corrosion, or other permanent damage.

To prevent such issues, please strictly follow the instructions below:

Environmental Transition: After moving the product from a low-temperature environment (e.g., a cold outdoors, an air-conditioned room, a vehicle) to a room-temperature environment, do not power it on immediately.

Passive Waiting Period: Place the product in a dry, well-ventilated area at room temperature and let it sit for 4-6 hours (the exact duration depends on the temperature difference and humidity level). Allow the product's temperature to naturally rise to match the ambient temperature, ensuring any internal condensation completely evaporates.

Inspection and Confirmation: Only after confirming that the product's exterior and interior are completely dry and free of any moisture should you proceed to connect it to power and use it normally.



Please Note: Damage resulting from failure to comply with this notice is not covered under the product warranty.

8.Warranty Service Terms

8.1 Description of Warranty Clause

If the PowerGiant 3600 high-performance industrial mobile power station manufactured by the Company is defective, defective or faulty under normal use in accordance with the user manual within two years of normal use (calculated from the date of delivery), the Company will return, repair and replace the product as necessary.

The Essential Protection Terms shall not apply to the following:

- Can not provide product warranty card and valid purchase certificate.
- Product failure or damage caused by failure to comply with the operation instructions in this product manual.
- Product failure or damage caused by improper use.
- Product failure or damage caused by improper maintenance or repair.
- The product is faulty or damaged due to any maintenance, modification, repair, disassembly and installation of the product without the authorization of Pingalax. The product is faulty or damaged due to improper transportation, handling or falling after delivery.
- Product damage caused by environmental or natural disasters, including but not limited to fire, earthquake, flood, lightning and other environmental conditions.



Explanation

- If the equipment is faulty, please contact your distributor or Pingalax Company for handling.
- The appearance of the product (such as paint damage, scratches, dents or breaks), consumables and accessories are not covered by the warranty.



Matters need attention

- Although Pingalax does not require you to perform all services or maintenance work at the Pingalax authorized Service Center, the lack or improper service or maintenance may invalidate this warranty service or cause such maintenance work to be beyond the scope of coverage.
- Pingalax Authorized Service Center is an authorized license agency that is officially evaluated and recognized by Pingalax, employs professional technicians, and authorizes the operation of Pingalax products. Pingalax strongly recommends that you perform all maintenance, service and repair work at Pingalax Authorized Service Center to avoid invalidation of this warranty service clause.

8.2 Limitation of Liability

- These warranty terms and conditions are the only express warranties made by Pingalax to you.
- Pingalax will repair or replace the products and internal parts for defects within the scope of the warranty, which is the only way to implement this warranty service clause.
- Pingalax reserves the final decision on whether to repair or replace parts or use new, refurbished or modified parts.
- Subject to laws and regulations, Pingalax hereby declares that it shall not be liable for all indirect, incidental, special and secondary damages related to the products, including but not limited to transportation costs, time loss, income loss, use loss, personal or commercial property loss, mental loss, business loss (including but not limited to profit or income loss) and other incidental expenses incurred to and from Pingalax authorized service centers.



CE Statement

Pingalax declares that this PG3600 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. In accordance with Article 10(2) and Article 10(10), this product is allowed to be used in all EU member states.



Safe distance warning

Use the PG3600 in the environment with the temperature between -15°C and +55°C, the device complies with RF specifications when the device is used at 20cm from your body. Risk of explosion if battery is replaced by an incorrect type.

8.3 Warranty Card

Please keep this card safe and present it a long with the official purchase invoice or contract when requesting repairs for validation.

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

The size and specifications of this product are subject to change due to ongoing upgrades by us. Please refer to the latest information, as this information may change without prior notice.
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