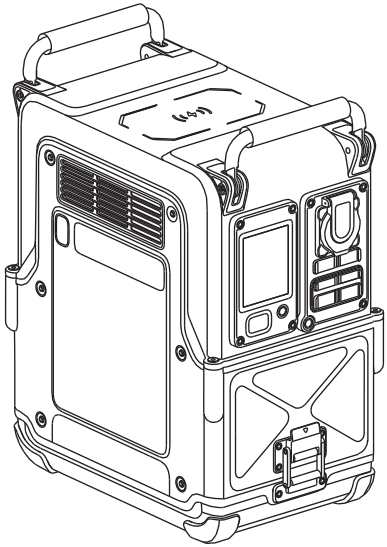
Portable Power Station

USER MANUAL

EP600-2



Disclaimer

Before using, please read the user manual of this product to ensure proper use after complete understanding. After reading, please keep the user manual properly for future reference. Failing to operate this product properly, you may cause serious injury to yourself or others, or cause product damage and property damage. Once using this product, you are deemed to have understood, recognized, and accepted all the terms and contents of this document. The user undertakes to be responsible for his/her actions and all consequences arising therefrom. Manufacturer shall not be liable for any loss arising from the user's failure of using the product in accordance with the user manual.

Under the compliance with laws and regulations, the company is entitled to final interpretation right to this document and all documents related to this product. This document is subject to any update, revision or termination without prior notice. Please visit official website for the latest information of product.

- Please read this user manual carefully before use and use this product correctly according to the operating instructions.
- The first charge is crucial to the battery performance of the product, so please fully charge the product before using it for the first time.

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1. Parameters and Specifications

Basic Parameters

Model	EP600-2
Net Weight	Approximately 7.6kg (16.8lbs)
Dimension	261X163X301mm (10.3X6.4X11.9inches)
Capacity	512Wh (25.6V⎓20Ah)

Output Specification

AC Output (X2)	Pure sine wave, 600W total (surge 1,200W) 120V~50/60Hz *
USB-A Output (X2)	5V⎓3A 9V⎓2A 12V⎓1.5A, 18W max. per port, 36W total
USB-C Output (X2)	5/9/12/15V⎓3A, 20V⎓5A, 100W max. per port, 200W total
Car Charger Output(X1)	12.6V⎓10A, 126W max.
5521 Output (X2)	12.6V⎓3A, 38W max. per port, 76W total
Wireless Output (X1)	5/7.5/10/15W
Wi-Fi (2.4G)	Frequency range :20M: 2412-2462MHz/40M: 2422-2452MHz Maximum output power : 0.071W
Bluetooth	Frequency range : 2402-2480MHz, Maximum output power : 0.005W

* Do not switch the AC output frequency at will, as it may cause some electrical appliances to stop working.

Input Specification

AC Charging Power	600W max.
AC Input	100V-120V~50/60Hz, 7A max.
DC Input	12V-30V⎓8A, 200W max.
Car Charging Input	12/24V⎓8A,100W max.

Battery Specification

Cell Material	LFP battery
Cell Cycle Life	80%+ capacity after 4,000 cycles *
Protection Type	Over charge protection, Over discharge protection, Over current protection, Over temperature protection and Short-circuit protection etc.

* Under standard laboratory conditions.

Operating Temperature

Optimum Operating Temperature	20℃-30℃ (68°F to 86°F)
Discharging Temperature	-10℃-40℃ (14°F to 104°F)
Charging Temperature	0℃-40℃ (32°F to 104°F)
Storage Temperature	-10℃-40℃ / 14°F to 104°F (Optimum：20℃-30℃/68°F to 86°F)

1. The car charger output shares power with the 5521 output, offering a maximum output of 126W.
2. Whether the product can be charged or discharged depends on the actual temperature of the battery pack.

2. Safety Instructions

WARNING

When using this product, the following precautions should be adhered to:

2.1 Usage

1. Before using this product, please carefully read instructions of the user manual.
2. Do not use the product near a heat source, such as a fire source or a heating furnace. Exposure to fire or temperature above 130° C may cause explosion.
3. When using the product, please strictly follow the operating environment temperature specified in this user manual. If the temperature is too high, it may result in a fire or explosion, if the temperature is too low, the product performance may be severely reduced, or the product may cease to work.
4. If this product accidentally catches fire, we recommend that you use the fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and carbon dioxide fire extinguishers.
5. Do not allow this product to come into contact with any liquid. Do not use this product in the rain or high humidity.
6. It is recommended that you use moisture barrier bags in humid environments (for example, places by the sea or waterways) to prevent the product from getting wet.
7. If water is found inside the product, or the product is accidentally dropped into water, it must not be used or turned on again. Please place it in a safe open area, and stay away from it until it is completely dry. Please do not approach the product before it is dry. Please take anti-electric shock measures before touching the product. The dried product should not be used or discarded at will. Please properly dispose of it after contacting Customer Service.
8. Use a dry cloth to clean dirt from the product ports.
9. Do not use this product in an environment with strong static electricity or strong magnetic field.
10. Do not stack any heavy objects on the product.
11. Store the product in a dry and ventilated place.
12. Keep this product out of reach of children and pets.
13. Do not place the battery in a low air pressure environment, as this may cause flammable liquids to leak or even an explosion.
14. Do not disassemble or puncture this product in any way with sharp objects.
15. Do not forcibly block the fan during use.
16. Do not touch the product port with wires or other metal objects to avoid short circuit or other risks.
17. Put the product on a flat surface to avoid damages caused by the product falling over. If the product is overturned and severely damaged, turn it off immediately, place the battery in an open area, keep it away from combustible matter and people, and dispose of it in accordance with local laws and regulations.
18. When using or transporting this product, please do not load it mixed with metal, object, such as the hairpin, necklace or sharp object, and avoid impact, falls and violent vibrations. In case of a severe impact, stop using this product immediately and turn off the power.
19. Do not use unofficial components or accessories as this will void the warranty. Consult official EHOM customer service team if you need to replace any component or accessory.

20. This product is not recommended for powering medical emergency equipment related to personal safety, including but not limited to medical grade ventilators (hospital CPAP: Continuous Positive Airway Pressure)or artificial lungs (ECMO: Extracorporeal Membrane Oxygenation). The product can be used to power a home ventilator (home CPAP) that does not have to be continuously monitored by professionals. Please follow your doctor's instructions and consult with the manufacturer for restrictions on the use of the equipment. If it is used for general medical equipment, please be sure to monitor the power status to ensure that the power does not run out.

21. When in use, power supply products will inevitably generate electromagnetic fields, which are likely to affect the normal operation of medical implants or personal medical equipment such as pacemakers, cochlear implants, hearing aids, defibrillators etc. If these types of medical equipment are being used, please contact the manufacturer to inquire about any restrictions on the use of such equipment. These measures are fundamental to ensure a safe distance between the medical implants (for example, pacemakers, cochlear implants, hearing aids, defibrillators, etc.) and this product while in use.

22. When the power supply is connected in the normal mode to a refrigerator, the power supply may be automatically shut down due to the power fluctuation property of the refrigerator. If the refrigerator stores medicines, vaccines or other high-value items, it is highly recommended that you set the AC output to "Never Turn Off" through the EHOM APP when connecting the power supply product to ensure a continuous power supply. Users should pay attention to the power consumption of the power supply.

23. Do not put fingers or hands into the product.

24. To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.

25. Do not operate the power pack with a damaged cord, plug or output cable.

26. To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.

27. Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.

28. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

29. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

30. Users should not to place the product on the floor, or at a height less than 457 mm (18 inches) above the floor, when in a repair facility.

31. For long-term storage, please discharge the product every three months (firstly discharge it to 0%, then recharge it to 60%); the product will not be covered by the warranty if it is not charged or discharged for more than 6 months.

32. If the product generates heat slightly during use or charging, it is normal but not a failure.

33. Do not scrub the product with harsh chemicals, such as soap, or other detergents containing strong base or strong acid.

34. This product is with HV output, please operate as per the guidance of Manual. It is not allowed to wire arbitrarily, so as not to contact.

35. When using this product, please turn on corresponding switch first, and the device shall not be connected to use until LED indicator shows that the output is normal.

36. Please charge with the cable accompanied with this product, otherwise serious failure may occur.

37. The device may only be used indoors and that no outdoor use in allowed under any conditions.

38. This product is not a power pack with booster cables.

⚠ Operation of this equipment in a residential environment could cause radio interference.

2.2 Disposal Guide

1. Please take good care of the environment, not to litter or burn waste battery product.
2. Whenever possible, please completely discharge the battery of this product before placing the product in the designated battery recycling bin. This product contains batteries. Batteries are hazardous chemicals and should not be disposed of in ordinary trash cans. For details, please follow local laws and regulations on battery recycling and disposal.
3. If the battery cannot be completely discharged due to the failure of the product itself, please do not dispose of the battery directly in the battery recycling bin, and contact a professional battery recycling company for further processing.
4. The battery will not start after over-discharge, please dispose of it.

2.3 Grounding Instructions

This product must be grounded. If it should malfunction or break down while charging, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a power cord that has an equipment grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes ordinances.

WARNING

Improper connection of the equipment grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product-if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

⚠ SAVE THESE INSTRUCTIONS

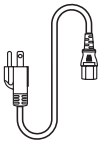
3. APP

EHOM APP

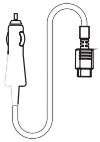
Download the EHOM APP by scanning the QR code and enjoy a brand new experience! Control, monitor, customize your device and update firmware from afar with the EHOM APP

4. What is in the box

EP600-2



AC Charging Cable

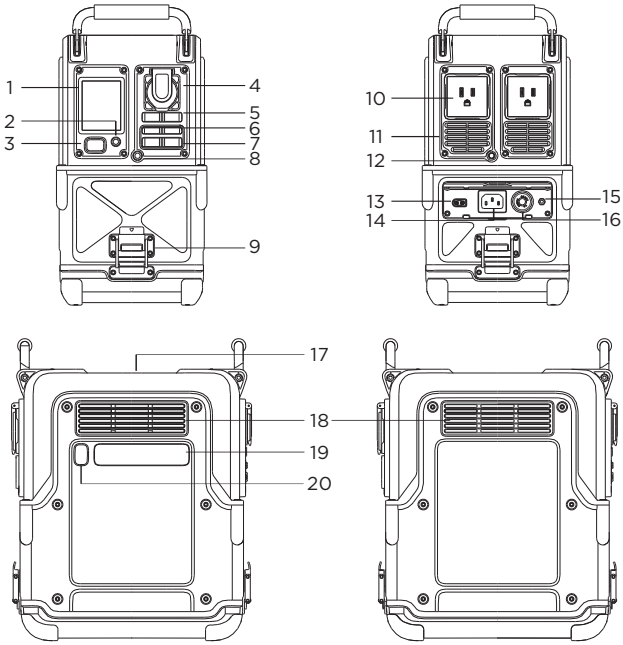


Car Charging Cable

User Manual &
Warranty Card

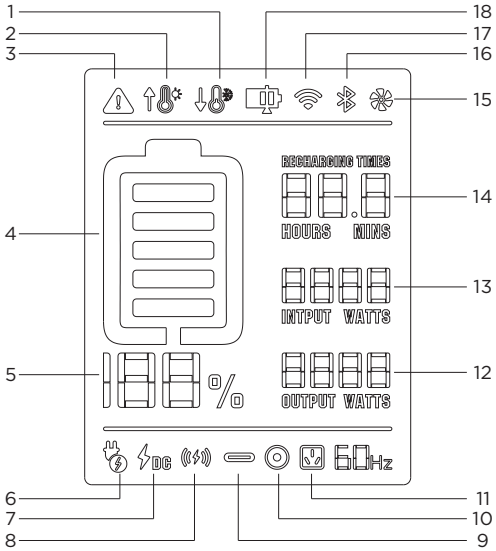
5. Product Details

5.1 Overview



1. LCD
2. Bluetooth switch
3. Main power switch
4. Car charger outlet
5. 5521 output port (x2)
6. USB-C port(x2)
7. USB-A port(x2)
8. DC output switch
9. Storage box switch
10. AC output socket(x2)
11. Air outlet (do not block)
12. AC output switch
13. Solar/Car charging input port
14. NitroGo AC charging input port
15. Ground pole
16. Overload protection switch
17. Wireless output
18. Air intake (do not block)
19. LED light
20. LED light switch

5.2 LCD Screen

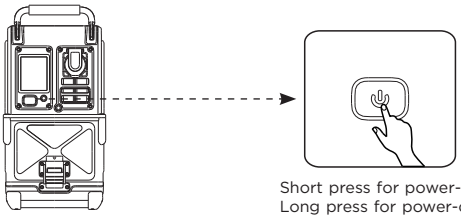


1. Low temperature warning
2. High temperature warning
3. Fault warning
4. Remaining battery level
5. Remaining battery percentage
6. AC input
7. DC input
8. Wireless output
9. USB-A&USB-C output
10. Car charger & 5521 output
11. AC output
12. Output power
13. Input power
14. Remaining charge/discharge time
15. Fan indicator
16. Bluetooth connection status
17. Wi-Fi status
18. Discharge/Recharge level limitation

Refer to “Troubleshooting”for details.

6. Power On/Off

Press the main power switch once to turn on the product. The LCD screen lights up and the main power indicator flashes green.
Press and hold the main power switch (for about 3 seconds) to turn off the product, and the LCD screen.



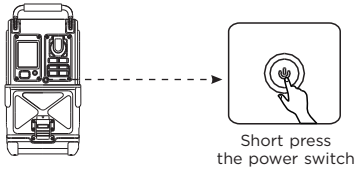
Short press for power-on
Long press for power-off

1. After the product is turned on, press the main power switch once to turn off the LCD screen.
2. If the product is not used for 5 minutes, it will enter hibernation and the LCD screen will turn off. The automatic shutdown time of the LCD screen can be set through the APP.
3. When EP600-2 is charging, it can't be turned off by pressing and holding the main power switch unless the charging cable is unplugged first.

7. Charge Your Devices

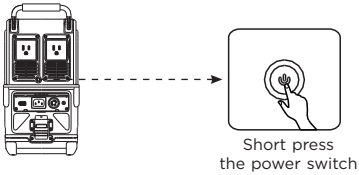
7.1 DC output

Press the DC output switch once to turn on their corresponding DC output sockets and wireless, open the covers and connect devices. Press again to turn them off.



7.2 AC output

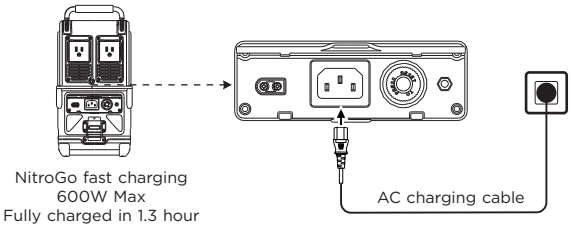
Press the AC output switch once to turn on their corresponding AC output sockets, open the covers and connect devices. Press again to turn them off.



⚠ When using the AC output socket, make sure that the sum power of all loaded devices is less than the rated power.

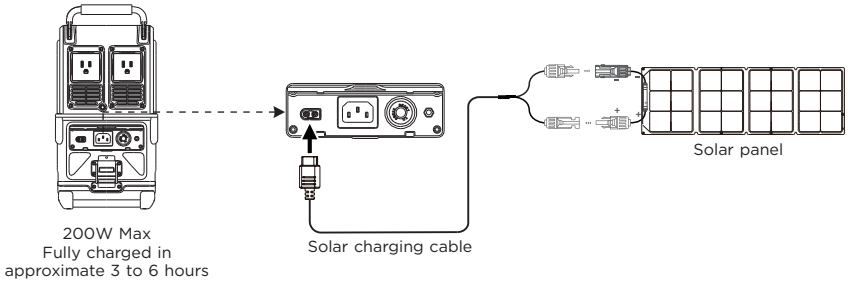
8. Charge EP600-2

8.1 AC Charging (Grid Charging)



1. For AC charging, we recommend that you use a power socket with a capacity of more than 10A and ensure that the working current of the socket is constantly greater than 10A.
2. For AC charging, please use the AC charging cable included in the package and plug the cable directly into a wall outlet instead of an extension socket.

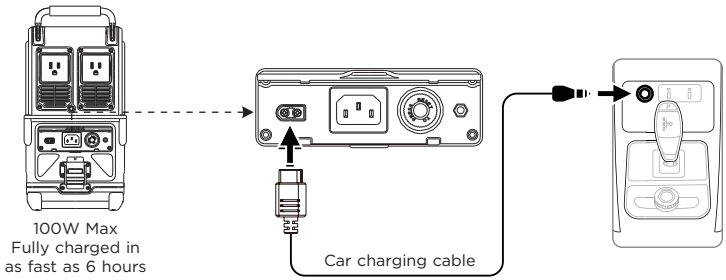
8.2 Solar Charging



1. When using an EHOM solar panel to charge the product, connect them according to the instruction in the user manual.
2.Before connecting the solar panel, ensure that the output voltage of the solar panel is less than 30V to avoid product damage.

8.3 Car Charging

You can recharge the product through the car power outlet. The product supports 12V/24V car chargers and a maximum charging current of 8A.
To avoid failure to start due to insufficient car battery, use the car charger after the vehicle is started. In addition, please make sure that the car charger cable is securely connected to the cigarette lighter.
EHOM takes no responsibilities for any loss or damage caused by failure to follow instructions.



9. Additional Features

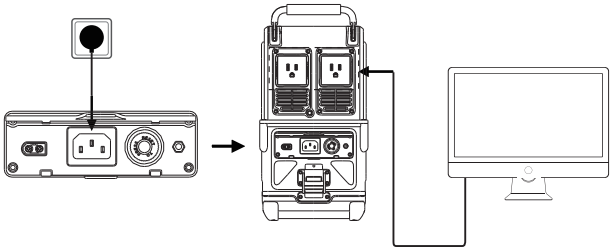
9.1 SpurFlux

The product supports SpurFlux. It can power devices rated at up to 1,200W without incurring operation failure due to overload protection. Observe the following tips when using the SpurFlux feature:

1. The SpurFlux feature is not suitable for appliances with voltage protection (such as precise instruments).
2. It is suitable for heating and motor-driven devices. Please conduct your own tests to check whether your devices support SpurFlux.

9.2 EPS

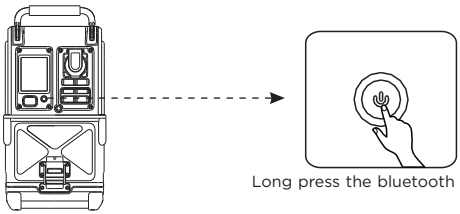
The product supports emergency power supply (EPS). When you connect the grid power to the AC input port of the product through an AC cable, you can power electrical devices through the AC output port (AC power will come from the grid instead of the power station in this situation). In case of a sudden blackout, the product can automatically switch to the battery-powered supply mode within 20ms.



⚠ As a basic UPS feature, the EPS does not support 0ms switching. Please do not connect the product to any device that requires 0ms UPS (such as data servers and workstations). Please test and confirm the compatibility before using the product. We recommend that you power only one device (with maximum power <600W) at a time and avoid using multiple appliances at the same time to avoid triggering overload protection, EHOM takes no responsibilities for any device failure or data loss caused by failure to follow instructions.

9.3 Bluetooth switch

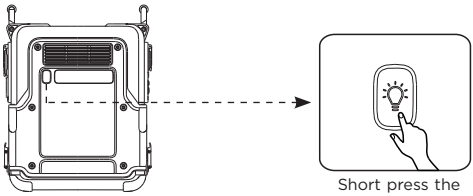
If the bluetooth is not connect in 5 minutes, it will automatically turn off. Press and hold the bluetooth switch (for about 5 seconds)to turn on the bluetooth. When the bluetooth switch is successful, the product will make a drop prompt sound.



Long press the bluetooth switch

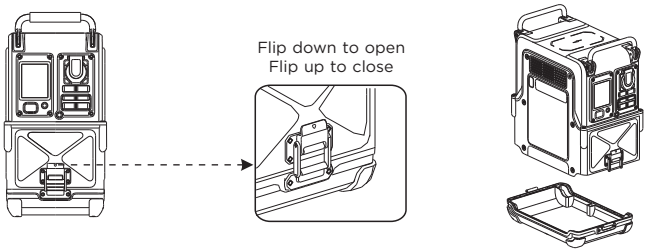
9.4 LED light

Press the LED light switch once to turn on the LED light. Press again in sequence to change brightness, change mode, and turn it off.



9.5 Storage box

Operate the storage box switch to separate the storage box from the product. You can put the AC charging cable, the car charging cable and other common outdoor goods which can be placed in the storage box.



10. FAQ

1. What battery does the product use?
   High-quality LFP battery.

2. What devices can the product's AC output socket power?
   SpurFlux The rated power of the product is 600W and the surge power is 1,200W. With the feature, the product's AC output sockets can power devices rated at 1,600W or below. We recommend that you confirm the power of devices before use, and ensure that the sum power of all loaded devices is less than the rated power.

3. How do I know how long the product can charge my devices?
   The charging time is shown on the product's LCD screen, which can be used to estimate the charging time of most appliances with stable power usage.

4. How do I know if the product is charging?
   During charging, the remaining charging time is shown on the LCD screen. Meanwhile, the remaining battery level indicator flashes and the input power is shown.

5. Can I take the product on a plane?
   No.

6. Can I switch the frequency of the product?
   In the state of shutdown, long press and hold the AC output switch, then short press the main power switch to turn on the product. After the display screen completes self-check and displays the frequency that needs to be switched, release the AC output switch (during which the product will emit a prompt sound of about 2 seconds). The AC output will automatically turn on after 3 seconds. We recommend that you do not switch the frequency in most cases.

7. Why is there noise when it is being used?
   The product adopts an air-cooled system, and the built-in fan better helps the product dissipate heat. It is normal for a slight noise to occur during use.

8. Why does the product automatically shut off the output after using low-power load device for a few hours?
   When the power of load device connected to the socket less than 1W, the product will automatically shut off the output after exceeds AC standby time, to avoid that the output is forgotten to be shut off during using, to cause the battery to run out automatically.

11. Troubleshooting

Fault prompt (Constant)	Abnormal icon (Flash)	Abnormal prompt sound	Abnormal type	Method of abnormal recovery
		NG	High temperature protection for AC charging	The power supply will resume automatically once the battery cools down.
	DC	NG	High temperature protection for DC charging	
		NG	High temperature protection for discharging	
		NG	Low temperature protection for AC charging	The power supply will resume automatically once battery temperature rises above 3°C .
	DC	NG	Low temperature protection for DC charging	
		NG	Low temperature protection for discharging	The power supply will resume automatically once the battery temperature rises.
		YES	AC charging overload protection	Normal operation will resume automatically once you remove the charging cable and restart the product.
	DC	YES	DC charging overload protection	Select solar panels that match this product.
	60Hz	YES	AC output overload protection	Remove the load, press the AC button to restart the output.
		YES	USB-A or USB-C output overload protection	Normal operation will resume automatically once you remove the overloaded device and restart the DC output.
		YES	Car charger or 5521 failure output overload protection	
		YES	Fan blockage	Please check if the fan is blocked by foreign materials.

Note: The fault icon will continue to flash until the product returns to normal. The abnormal fault prompt sound will sound once per second, and automatically stop after 5 times.

⚠ If the abnormal icon shows on the product LCD screen during use and does not disappear after a restart, please stop using it immediately (do not try to charge or discharge). If you require any other assistance, please contact customer service.

12. Care and Maintenance

1. For long-term storage, please recharge the product every three months (firstly discharge it to 0%, then recharge it to 60%). The product will not be covered by the warranty if it is not charged or discharged for more than 6 months.
2. If the product has been idle for too long and the battery is severely low, it will enter a deep sleep protection mode. In such case, please charge the product before using it again.
3. It is recommended to use or store this product in an environment between 0 °C~40 °C, away from harsh environments such as humidity and high heat.
4. For safety reasons, please do not store this product in an environment above 40°C or below -10 °C for a long time.
5. In order to extend the service life of the battery, it is recommended to use this product in an environment of 20°C~30°C.

13. Warranty and Contact Information

We guarantee to users that, there will be no defect of the product affecting the use due to workmanship and materials under normal use of the product. This Warranty Statement sets out the full and exclusive warranty obligations of the product.

Warranty period

The warranty period of the product is 5 year. In all cases, the warranty period is calculated from the date of buying product by the consumer. In order to determine starting date of the warranty period, consumer buying voucher or other reasonable documentary proof is required to provide.

Following cases are not covered by the warranty:

1. The appearance of product is damaged after use.
2. Unauthorized disassembly/assembly and maintenance of non-staff member.
3. Product performance failure caused due to man-made reasons.
4. Damage caused by natural disasters, lightning, accidents, etc., and other irresistible factors.

How to obtain warranty service

To get warranty service, please contact our customer service department through ehom.service@loncinindustries.com, thank you.

14. FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ISED Compliance Statements
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contr?lé.

RF Exposure Compliance
This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contr?lé. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.
Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Warranty Card

Name：	Tel：
Address：	
Purchasing date：	
Warranty effective date：	
Purchase channels：	
S/N：	

Date	Maintenance records