

Protection prompt description

	Battery alarm	When the battery alarm icon blinks, it indicates that the battery is seriously faulty and buzzes. Do not charge or discharge the device again.
	Low temperature alarm	When the low temperature alarm icon blinks, please check whether the ambient temperature is lower than -10 °C and use the device in an environment ranging from -10 °C to 40 °C.
	High temperature alarm	When the high temperature alarm icon blinks, please check whether the ambient temperature exceeds 40 °C and use the device in an environment ranging from -10 °C to 40 °C. In addition, check whether air outlet of the product is blocked by dust or the cooling system is faulty.
	Fan operation indicator	When the fan icon blinks, the heat dissipation system of the device is starting.
OVERLOAD	Overload alarm	When the overload icon is on, please check whether the power of the powered device exceeds the max. rated power of this product.
	Fault code (power meter)	If the power meter displays fault codes E01 to E80, the device fails to protect itself or start up. Please restart it again.

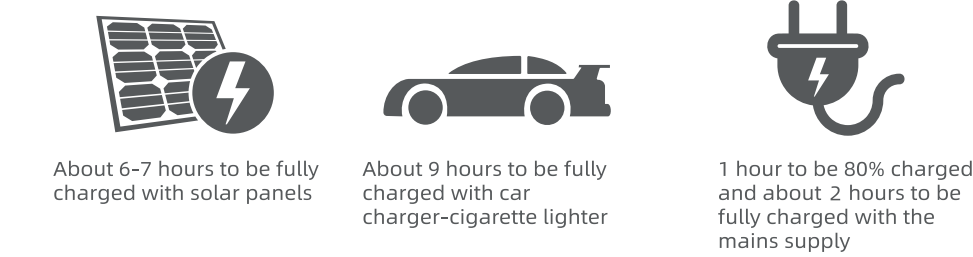
* If you still encounter other problems that you cannot solve during use, please contact your local dealer or our customer service. Please do not repair without permission or perform any operation that may void the warranty service.

Precautions

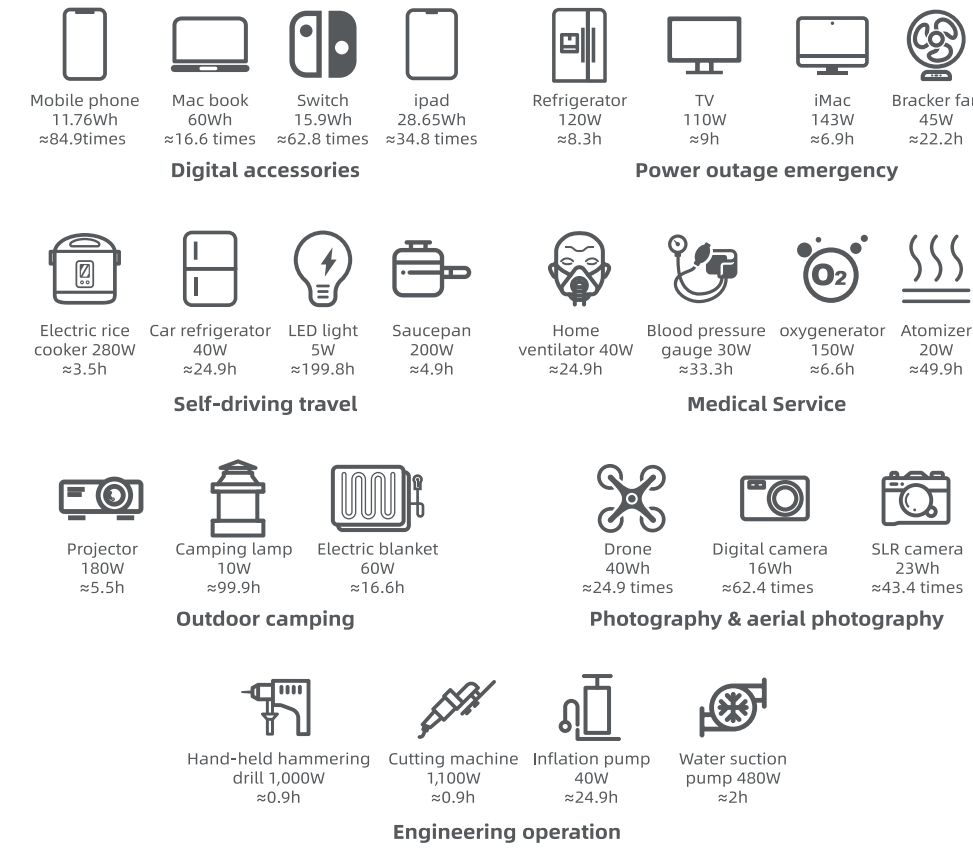
- Please notice the displayed output power when using this product to charge other devices. To ensure the product normal operation during prolonged high power output in extreme temperatures, the AC output power will be limited to 800W.
- When powering a high-power device (such as a microwave oven), the battery power will drop very quickly and may not be able to support output. Although this product is equipped with a high-efficiency inverter, there is still some energy lost in inversion, and therefore the battery fails to get the full rated capacity.
- If this product fails to power other devices, you may need to check the power requirements of other devices, see the following Frequently Asked Questions for details.

Operating diagram

Charging mode for the product



Support to charge the devices in the following scenarios

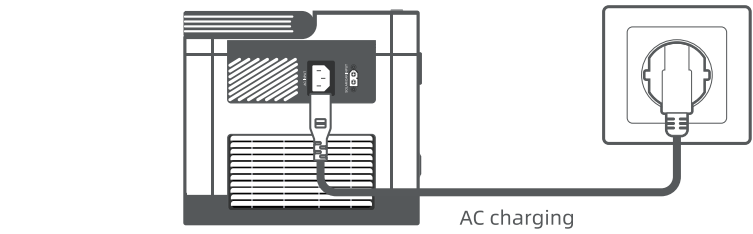


Charging the product

AC charging

- When charging with the charging cable in the accessories, current battery power is indicated by the battery power progress bar, the flashing battery segments indicate that the battery is being charged, and the power meter displays the charging power.
- When fully charged, all the progress bar battery segments will be always on.

***Important:** When AC charging, this product does not support AC output.



Charging port: 120 V single-phase input, L/N two-wire system

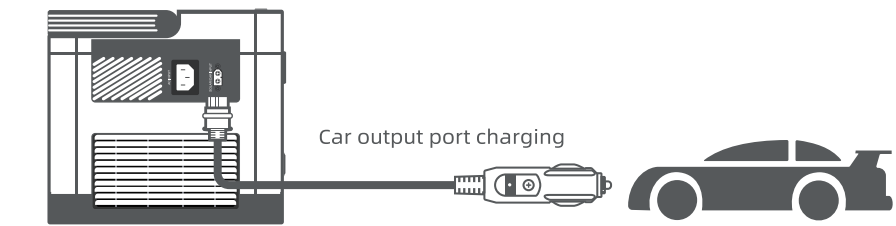
Charging power: 850 W Max

Charging time: 1 hour to be 80% charged and about 2 hours to be fully charged

Charging voltage: 100 V-120 V~, 60 Hz

Car charger charging

- The port on the product that connects the car output is an XT60 port (for SOLAR/CAR INPUT).
- When charging with the car output port charging cable in the accessories, current battery power is indicated by the battery power progress bar, the flashing battery segments indicate that the battery is being charged, and the power meter displays the charging power.
 - When fully charged, all the progress bar battery segments will be always on.

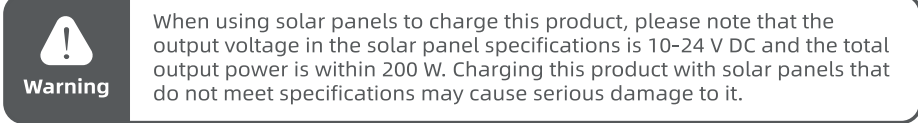


Charging port: XT60 port

Charging power: rated 200 W (the actual application is affected by on-board output)

Charging the product

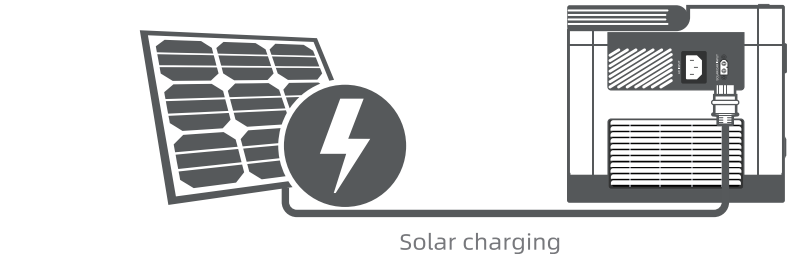
PV charging



- The port on the product that connects the solar output is an XT60 port (for SOLAR/CAR INPUT).
- When charging, please expose solar panels to more direct sunlight.
 - During charging, the battery power progress bar on the display screen displays the current battery power, and the blinking battery segments indicate that the battery is being charged. When fully charged, all battery segments remain on.
 - If necessary, low-power solar panels can be connected in series and parallel to charge this product provided that the voltage and total power shall be within right specification ranges.

Notes for PV charging

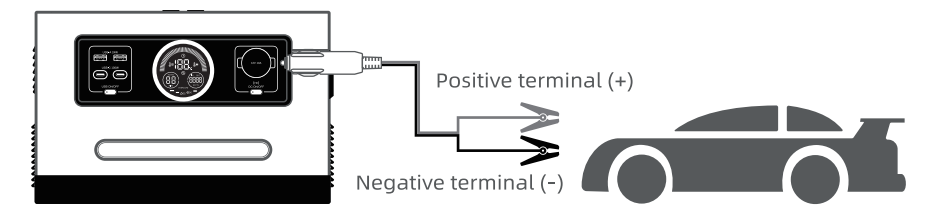
- Solar panel does not store solar energy, but collects solar energy. That is, solar panels collect solar energy and store it in this product, powering your powered devices anytime and anywhere. When the PV charging is under way, powered devices can be used at the same time, that is, supporting discharging while charging.
- PV charging time varies. Most solar panel manufacturers calculate the PV charging time with the following formula: device Wh/solar panel watts = solar charging time. Theoretically, a 200-watt solar panel can fully charge a 999 Wh outdoor power source in 5 hours (999/200≈5), and the said data can be found in the solar panel instructions manual. In order to standardize the PV charging time from all manufacturers, these tests are done in a laboratory environment. However, only about 50-75% of rated solar panel power can be collected on a sunny day, which is how engineers calculate the PV charging time of this product.
- The solar panel can be charged even on cloudy days. The solar panel uses the infrared and ultraviolet rays emitted by the sun and visible light that penetrates the clouds. Therefore, this product can still be charged by the sun but with reduced efficiency.
- Solar panels should not be screened by window glasses. When your solar panel is completely exposed to the sun, it will collect more energy. Windows can also reduce efficiency. So put these panels outside and in the sun. The optimal arrangement is to directly face solar panels toward the sun, thereby dramatically improving solar efficiency.



Car Emergency Charging Operation

Car emergency start procedure

- Clip the red clip to the positive terminal (+) of the car battery and the black clip to the negative terminal (-).
- Plug the other end of the emergency start cord to the car output port of this product and charge for about 10 min.
- Before starting the car, unplug the emergency start cord and remove the red and black clips.
- Start the car engine as usual.



* This emergency start connection cable needs to be purchased separately.

Precautions

- Keep a safe distance between the red and black clips to prevent short circuit.
- Before the car starts, please disconnect this product from the car to prevent damage to this product and any possible accidents.
- When the car starts, stay away from the engine to avoid possible injuries.
- Before using this function, please ensure that the dump power of this product is greater than 60%.
- People unfamiliar with this function are not allowed to use function, especially minors.

Frequently Asked Questions

- Q.**What type of battery is used in this product?
- A.**This product adopts customized lithium ion battery. Here are some general facts about the lithium-ion battery: Lithium-ion battery is able to store and release large quantity of energy in a short period of time. Equipped with a battery protection panel, it can control current to safely reach each output port through advanced battery management and protection systems.
- Q.**How do I check the current battery power of this product?
- A.**You can press any key to light up the display screen and find the battery icon. The number of battery segments in the icon indicates the current battery power. This product can be used even if it is not fully charged.
- Q.**Can I carry this product on the plane?
- A.**No, you can't.
- Q.**How do I know if it is compatible with my electrical device?
- A.**Firstly, you need to determine the rated power of your electrical device. This may require you to read the instruction manual of the electrical device. Second, you need to check the max. rated power of output ports in this product. For example, 1,200 W power supply is available for the port of this product under the control of inverter.
- Q.**Why do the USB and cigarette lighter ports exhibit insufficient power output or stop functioning when the device battery level is low?
- A.**When the device's battery level drops below 25%, the total output power of the product is limited in order to extend the battery life. If the AC output remains at full power, the USB and cigarette lighter ports may be impacted by reducing output load or cessation of output.To use them normally, you can reduce or turn off the AC output, or promptly charge the device.
- The total output power of the product is restricted based on the battery level as follows:

This product has the function of dimension raising drive: It can drive the equipment of up to 2,400 W (* It can drive most resistive loads by step-down dimension raising, which is related to load characteristics), maximizing its compatibility with a variety of devices to the utmost extent. However, some devices whose power is higher than that of this product (1,200 W) cannot be driven. In this case, the product will automatically turn off its output.

Basic description of battery

Precautions for battery

This product uses the latest battery technology, covering various needs in your daily life. We have prepared some useful tips to keep the battery in the best working condition.

- 1-Batteries need to be used frequently
Any battery needs to be used frequently. Do not store and not use the battery for a long time. But if you plan to store it, make sure it is fully charged. Although this product will sound an alarm when the battery power is less than 3%, do not store the battery for a long time in the state of power loss, and in case that this product can not be charged, charge it once every 3 months during long-term storage, or you will go to the local after-sales service dealer for maintenance service.
- 2-The saying of "battery memory"
For Ni-Cd battery, you need to drain your battery before recharging it, the so-called "deep cycle". However, typical batteries in most devices today, including the advanced lithium battery used in this product, such discharge is no longer required. Actually, you should avoid deep cycle of your battery, which has more harm than good in most cases.
- 3-"Stadium effect"
The stadium effect occurs when you charge your battery. You'll notice that the battery charging process is fast at first, but slows down noticeably as you try to charge the last few percent. Just like how quickly a stadium is filled up when it first opens - there are hundreds of open seats, so it's easy to get one. When there are only a few empty seats here and there, people have to move around to get one, and it takes longer to fill up those seats hence. The same theory applies to charging the battery. Similarly, power easily flows in and occupies empty space at the beginning. As time goes by, less and less space is available, and it takes longer for power to fill left space.
- 4-Reading this instructions manual.
It will take some time to read the manual, but there are precautions for battery of this product. Following use methods stipulated in this manual will extend the service life of the battery.

Warranty Card

Warranty Period

The warranty period of this product is 24 months, which is calculated from the date of purchase. And in order to determine the start date of the warranty period, consumers are required to provide purchase receipt.

Warranty Policy

We will provide warranty service for performance failures of products used normally by consumers within the warranty period. If the product is damaged due to improper use by consumers, the maintenance fee shall be properly charged.

Non-warranty regulations

- 1. The product exceeds the warranty period specified by the Company.
- 2. Damage caused by unauthorized repair and unauthorized modification.
- 3. The original serial number label of the product is altered or forged.
- 4. Performance damage caused by improper storage, such as product being exposed to abnormal humidity and temperature for a long time.
- 5. Damage caused by artificial abuse and misuse without following the operation manual.
- 6. Exterior damage caused by abnormal use, damage due to man-made collision, damage caused by force majeure.

How to obtain warranty service

If our customers determine to need further help, please contact the local distributor where the product was purchased. who will give you a Return Material Authorizations ("RMA") number and a prepaid return label that you can use to mail your product. You must package the product correctly with clear RMA number on the package, as well as proof of the date you purchased the product. We will handle your returned product and send you the repaired or a new one at our expense. For products purchased or shipped outside of North America, please contact the local dealer for details.

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.

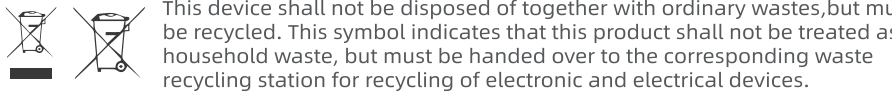
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID:2B87R-SL-1000A

Declaration of toxic and hazardous substances in electronic information products

Part name	Hazardous substance or element					
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
PCB	X	O	O	O	O	O
Electrode	O	O	O	O	O	O
Battery	X	O	O	O	O	O
Enclosure	O	O	O	O	O	O

This form is prepared in accordance with the ROHS certification standard.
O:Indicate that the amount of the toxic and hazardous substance in all homogeneous materials of the part is below the limit specified in EN 62321:2012.
X:Indicate that the amount of the toxic or hazardous substance in at least one homogeneous material of the part exceeds the limit specified in EN 62321:2012.



Please strictly follow the operation instructions and precautions, otherwise it may cause fire, electric shock, damage or other injuries

Product qualification certificate



Product qualification certificate:
This certificate indicates that the product has passed the inspection.

Return Registration Form



Product model: _____

Consumer name: _____

Order No.: _____

Product name: _____

Contact details: _____

Reason for return: _____

Manufacturer:Lanto Electronic Ltd.
Address : No 277, Baisheng Rd. Jinxi Town, Kunshan City, Jiangsu Province, China 215324



MADE IN CHINA

封底