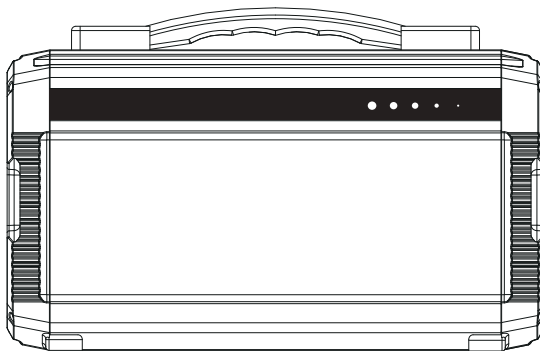


# 60000 mAh/220Wh

## PORTABLE SOLAR GENERATOR Universal Instruction manual



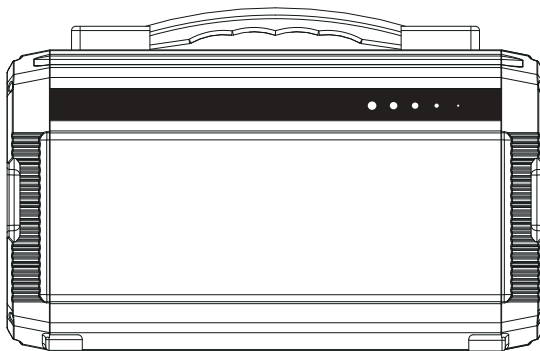
**ATTENTION:** This product user manual is universal for portable powerpack AC output range between 100V~240V/50Hz~60Hz. Actual product specification, especially AC output specification is customized according to different countries, areas or customers. Please refer to the actual product specification before you use the product.



MADE IN CHINA

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MADE IN CHINA

## ABOUT THE UNIT

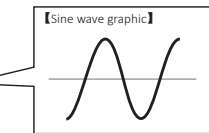
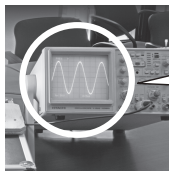
Thank you very much for applying our multi-function portable solar generator. In case of power failure or you need to charge on a travel, you can temporarily charge your electrical or digital products with this unit. This unit has been built in high quality lithium polymer battery, supports for USB, DC and AC output. Before using this unit, please read the user manual carefully and properly keep for reference.

## ATTENTION!

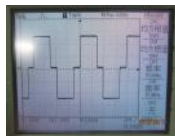
This manual is to help you use the product correctly; it does not represent any description on the hardware and software configuration of the product. About the product configuration, please refer to the contract related to this product (if there is), or consult to the seller that sells the product. Pictures in this manual is for reference only, if there are individual pictures do not match the actual, please prevail in actual products.

## The unit provides Pure Sine Wave output

The unit is built-in inverter, AC output waveform of “Wave”. It is a waveform that has characteristics same to the sine wave shape of utility power. It can provide the cleanest, most stable AC voltage to your AC electric appliance. While traditional inverter output Modified Sine Wave output, which can cause unstabilities to electrical devices, such as an electrical fan, it will even make the electric appliance arouse some noise. Appliances like refrigerators, microwaves, and compressors that use AC motors and some delicate medical equipment will be better off with a pure sine wave inverter. **This product is only used for emergency, it cannot replace the normal alternating current, for long-term use.**



◀ Oscilloscope display of sine wave



▲ Stepped waveform displayed on the oscilloscope

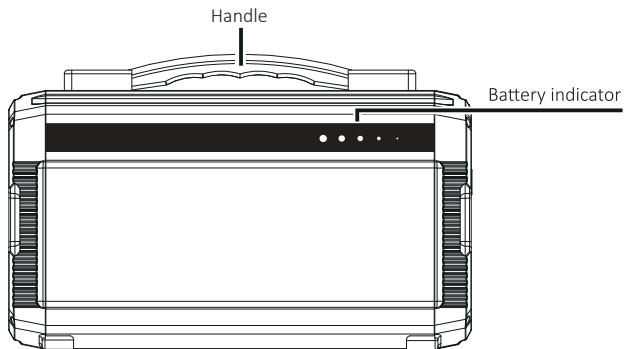
## 【 I 】 PRODUCT PARAMETERS

Capacity	60000mAh,3.7V /220Wh
Dimensions(LWH)	250x86x160mm
Weight	about 2.5Kg
Built-in Battery	High Quality Lithium Polymer Batteries
Input Recharging	DC15V/4.5A
Fully Charged Time	DC 15V:7~8 hours
Output	USB 5V-3.1A(Max), DC 9-12.6V/5A (Max)
DC Wattage(MAX)	9~12.6V/5A, 60W(Max)
AC Output	This user manual is universal for powerpack AC range between AC100V~240V /50Hz~60Hz (IMPORTANT! AC output is customized according to different countries,areas.Please refer to the actual product)
AC Power	AC Continuous Power Output: 200W Max Power Output:250W
Power Indicator	LED Indicators
Operation temperature range	-20 ℃ -60 ℃
Lifecycle	>500 times
Package include	1 x Portable SolarGenerator 1 x Power Adapter 1 x user manual

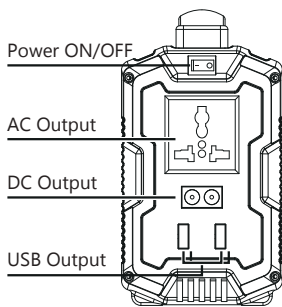
※ There may be some differences on different spare parts. Please adhere to the actual product instead.

## 【 II 】 PRODUCT DESCRIPTION

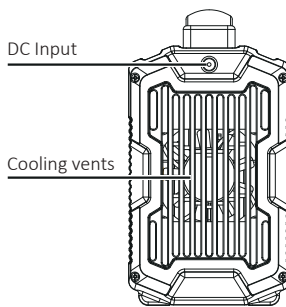
### 【Front】



### 【Right】



### 【Left】

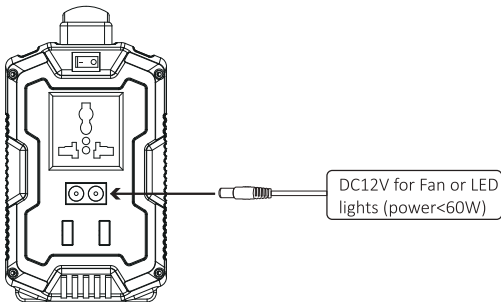


## 【III】 PRODUCT INSTRUCTION

### 1) How to provide power for DC12V appliances(such as head lamp, fan) with this product?

Please confirm whether the interface of DC12V appliance or lighting equipment is the DC5.5 header interface(The diameter of the DC Port of the Product is: 5.5mm), otherwise it is unable to connect with the DC output, if so, you can consult the electrical manufacturer, buy the corresponding adapter and connect with it.

**【Right】**



- ※ **Note:** Because the battery is chemical product, voltage drops with capacity, the DC output voltage of this product is in the range of 9~12.6V, the maximum output current is 5A. If the DC12V appliance you connect does not have the voltage stabilizing function, when the DC voltage drops with the decline of battery voltage, it may cause the informal of appliance, please stop use it.

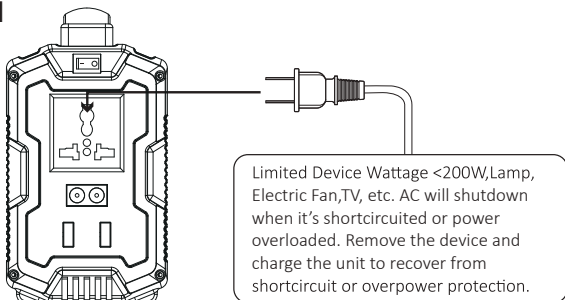
### 2) How to provide power for AC appliances with this product?

- a. Connect the power cable plug of the electrical appliance to the AC interface of the product.

**WARNING!** The interface specifications and voltage standard of different countries are different; please carefully check whether the product specifications are consistent with the appliance specifications before use, otherwise it can lead to dangerous situations.

- b. Switch on the power button, the AC output will be on, the electrical appliance starts to work.

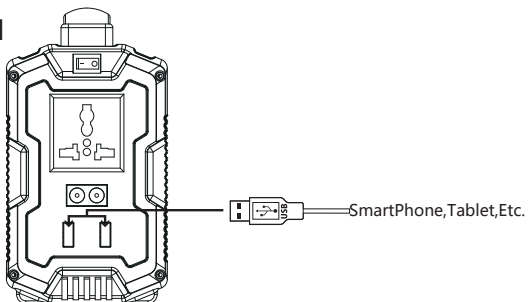
**【Right】**



### 3) How to provide power for USB digital appliances with this product?

Connect the standard USB cable of digital appliance with the USB interface of this product , Switch on the power button, then it can provide power for the digital appliance.

**【Right】**

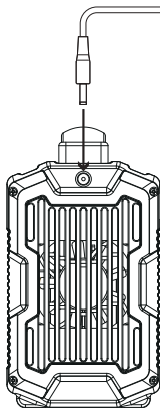


### 4) How to recharge the product?

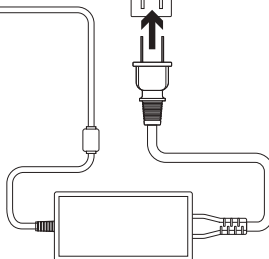
a.Charge through AC Adapter

Connect the AC plug of standard charging adapter for this product to the household AC socket, connect the DC plug of standard charging adapter with the DC input interface of this product, then this product can be charged. At this time, the battery indicators will light up and start rolling, When the product is full of power, the battery indicators will fully light, please remove the charger in time.

**【Left】**

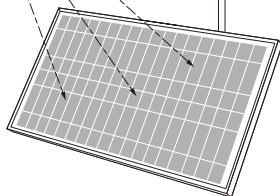


▼ AC outlet

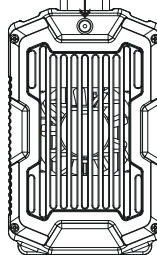


▲ AC Adapter (charger)  
/15V/4.5A, 7~8 hours of  
estimated fully charging time

b. Charge through Solar panel

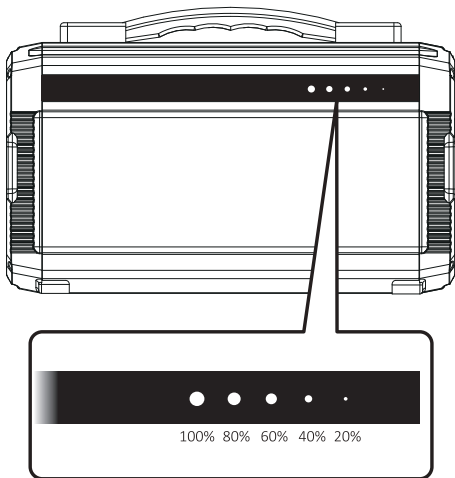


**【Left】**



## 【 IV 】 LED light indicator instruction

### 【Front】



LED Condition	Status instruction
Part of LED lights on	Current remaining battery indicator
Rolling (from right to left)	Charging
All LED lights on	Full of charge

- ※ When the powerpack is switched on, the rear cooling fan will run for a second, AC outlet will be turned on, and LED displays the current product remaining.
- ※ When charging, 5 LEDs will be on for a second, then starting rolling.
- ※ AC will stop when all 5 leds run off.

## **[ V ] SECURITY AND MAINTENANCE**

- a) Do not short-circuit the unit. To avoid short-circuiting, keep the unit away from all metal objects (e.g. coins, hair-pins, keys, etc.).
- b) Do not heat the unit, or dispose of it in fire, water or other liquids. Keep away from high temperatures. Do not expose the unit to direct sunlight.
- c) Keep away from high humidity, dusty places.
- d) Do not disassemble or reassemble this unit.
- e) Do not drop, place heavy objects on, or allow strong impact to this unit.
- f) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- g) Children should be supervised to ensure that they do not play with the appliance.
- h) Do not cover the device with towels, clothing and other item.
- i) The unit may become hot when charging. This is normal. Use caution when handling.
- j) Do not charge the unit over the required time.
- k) Disconnect the unit when fully charged.
- l) Use the unit properly to avoid electronic shock.
- m) Please deal with scrap products in accordance with the regulations, do not treatment the built-in battery as a household garbage, so as not to cause the explosion and pollution.
- n) The product is only used for emergency power station, it can not replace the standard DC or AC power of household appliances or digital products.

## **[ VI ] PRODUCT APPLICATION SKILLS**

- a) This product is built in high quality original lithium ion battery, it has no memory effect but high-capacity, and it is durable. However, we still recommend you to apply in the range of  $10\text{ }^{\circ}\text{C} \sim 30\text{ }^{\circ}\text{C}$ , so as to obtain the optimal charging capacity;
- b) When charging, in order to avoid interference, please stay away from TV, radio and other equipment
- c) If the device has not been used for a long time, please disconnect the cable and store it
- d) Some portable devices may need to be set in charge mode to charge, see the corresponding equipment use manual for more information
- e) In order to extend the life of product (lithium battery), it is best to charge within 3 months, and charge at least once within 6 months.

## **Recycle**

Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials.

## **Battery information**

Your device has an internal, non-removable, rechargeable battery. Do not attempt to remove the battery, as you may damage the device.

The battery can be charged and discharged over 500 times, but it will eventually wear out.

## **Statement**

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