

## Portable Power Supply | 1000W

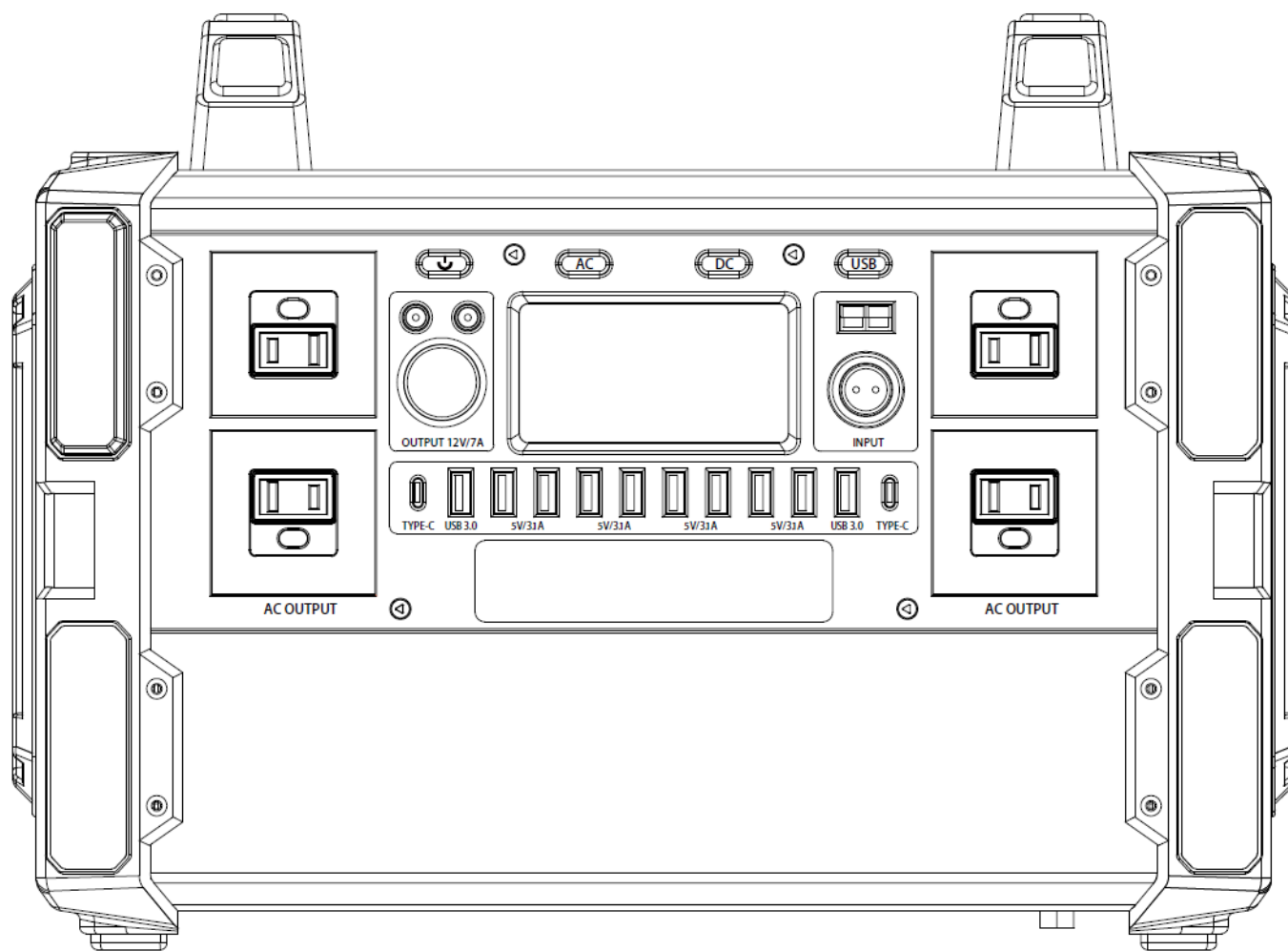
**Thank you for choosing Rough Country for all your vehicle needs.**

Please read instructions before beginning installation. Check the kit hardware against the kit contents shown below. Be sure you have all needed parts and know where they go.

If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.

Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.

Periodically check all hardware for tightness.

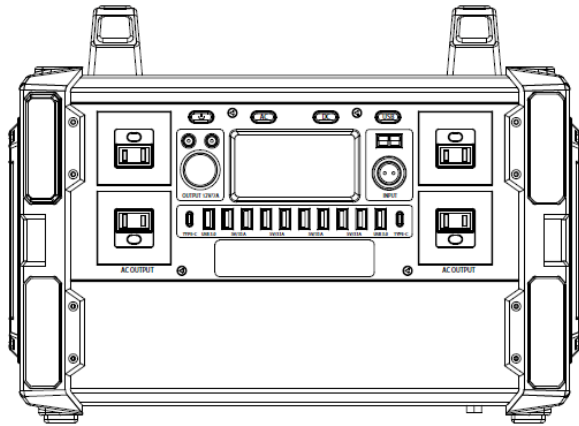


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# PORTABLE POWER SUPPLY

## Universal Instruction manual

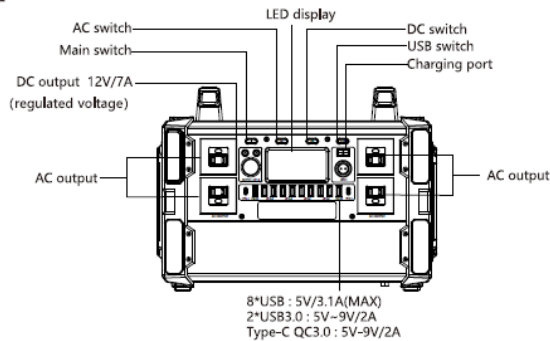


**ATTENTION:** This product user manual is universal for portable solar generator AC output range between 110V/60Hz. Actual product specification, actual AC outlets will be different according to different countries, areas or customers. Please refer to the actual product before you use the product.

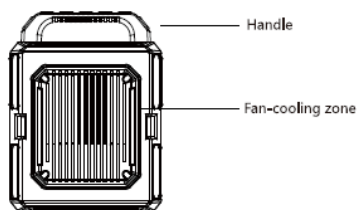
AC output	4 x AC pure sine wave 1000W Continuous output power AC output 110V
Power Indicator	LED Display
Operation temperature	-10°C ~ 40°C
Lifecycle	>2000 times
Package include	1 x 1000W power generator 1 x power adapter 1 x users manual

### 【 II 】 PRODUCT DESCRIPTION

#### 【Front】



#### 【Front】



AC Outlet, AC output voltage and frequency will be different according to different countries or areas, please refer to the actual product before using.

### ABOUT THE UNIT

Thank you very much for applying our multifunctional 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 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.

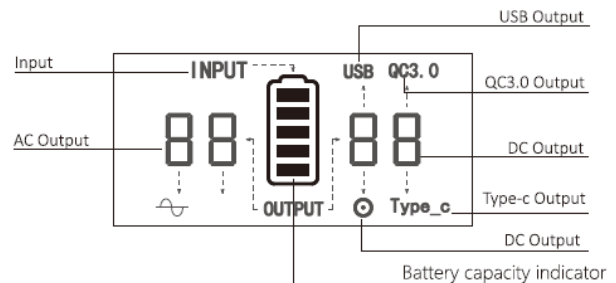
### The unit provides Sine Wave output

This power supply has a built-in inverter to provide pure sine wave output, which is consistent with the mains waveform and characteristics. Can provide fairly pure AC alternating current for electrical appliances. However, the traditional inverter with modified wave may cause the inverter to be unstable, and even cause electrical appliances, such as electrical appliances with built-in motors (such as electric fans, printers with motors, etc.) to emit certain operating noise. This product is for emergency use only and cannot be used as a substitute for normal household AC power. For long-term use of the appliance, please be sure to use the power supply specifications required by the appliance.

### 【 I 】 PRODUCT PARAMETERS

Capacity	1048Wh (22.4v , 46.8Ah)
Dimensions(LWH)	394 x 213 x 287mm
Weight	About 16 Kg
Built-in Battery	Phosphate iron lithium battery (LiFePo4 battery)
Input Recharging	DC: 25.5V/6A
Fully Charged Time	DC: 8-9 hours
USB Output	8 x USB: 5V/3.1A(MAX) 2 x Type-c: 5V ~ 9V/2A 2 x USB3.0: 5V ~ 9V/2A

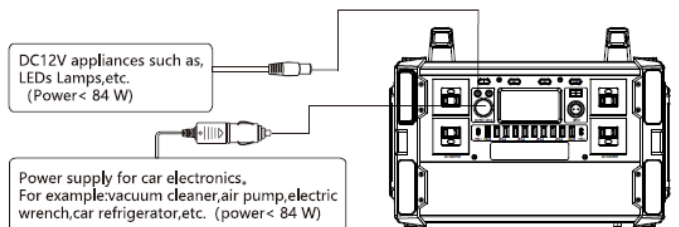
### 【LED Display】



### 【 III 】 PRODUCT INSTRUCTIONS

1). How to use this product to power DC12V electrical appliances (such as lights, ventilators)? Please make sure whether the DC12V electrical or lighting equipment interface is a DC5.5 male connector (outer diameter of the power plug: 5.5mm), otherwise it cannot be connected to the DC output socket of the machine. At this time, you can consult the electrical manufacturer and purchase the corresponding adapter to connect the machine. Connect the cigarette lighter to the vehicle tool to achieve power supply. If your electrical appliance supports car charging and power supply, you can use the cigarette lighter port to connect the product and your electrical appliance to achieve the purpose of power supply.

#### 【Front】



※ **Note:** The working range of DC output voltage of this product is 12V (regulated voltage), and the maximum output current is 7A.



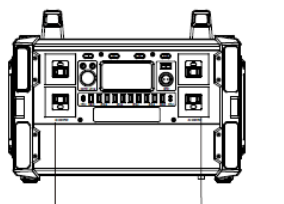
#### DC protection mode:

Short circuit, overload protection: If the DC output is short-circuited or the DC output is overload (load 85W or more), the unit will turn off the DC output. After removing the load, please press the DC button to restart the product.

#### 1) How to provide power for AC appliances with this unit ?

- Connect the plug of power cord of the appliances to the AC outlets of this unit.
- Click the POWER button of this unit to turn on, and click the AC button to turn on the AC output. At this time, the LED display of this unit will display the AC letter and the sine wave symbol is on, which means AC output and the electrical appliances start to work;
- Click POWER or directly press the AC button to turn off the AC output and the electrical appliances stop working.

#### [Product front]



The load power has to be equal to or less than 1000W, such as Lamp, TVs, electric fans, etc.; If the AC output is short-circuited or the load power exceeds 1000W, the product will enter the short-circuit protection or overload protection state, remove the short-circuit or the electrical equipment, press the AC button of the unit to restore the AC output.

Warning: According to different countries, the interface specifications and voltage specifications are also different. Please check carefully in advance whether the product specifications are consistent with the machine specifications, otherwise dangerous situations may occur. When you are not using an AC outlet, please turn off the AC switch in time to save energy.

#### Protection mode:

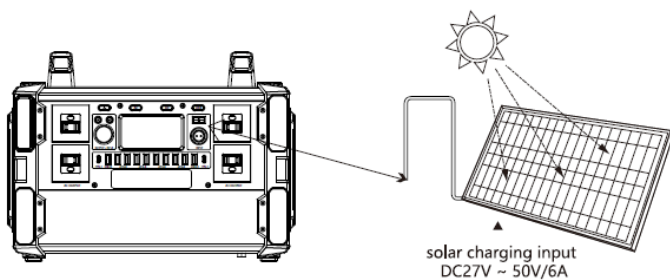
Short-circuit and over-power protection: When AC output is short-circuited or over-power (load exceeds 1000W), the AC output will be closed and protected. Please remove the load and press the AC button to restore AC output.

Remarks: Some electrical appliances, refrigerators, ice machines, laser printer lights, etc. require peak power to start or work. This peak power may last very short time, but it may exceed 1000W and activate the over-load protection. Please remove the appliances and press the AC button for reactivation. Please consult the equipment manufacturer for more information.

#### 3). How to use this unit to power USB digital devices

Connect the digital device to the USB output port of this unit, and then press the USB button, then it works.

Note: For some smart devices, such as Bluetooth headset and LED lights, their charging currents are lower than 150mA, it will cause the unit can not detect this current value and then these devices can not get any power from the unit.

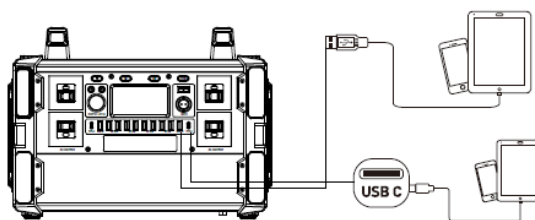


### [ IV ] SECURITY AND MAINTENANCE

- 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.).
- Do not heat the unit, or dispose it in fire water or other liquids. Keep away from high temperatures. Do not expose the unit to direct sunlight.
- Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- In order to extend the life of product (lithium battery), it is best to charge within 3 months. Do not drop, place heavy objects or hit it strongly.
- 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.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not cover the device with towels, clothing and other item.
- The unit may become hot when charging. This is normal. Please be careful when handling.
- Do not charge the unit over the required time.
- Disconnect the unit when fully charged.
- Use the unit properly to avoid electronic shock.
- Please deal with scrap products in accordance with the regulations, do not treat the built-in battery as a household garbage, so as not to cause the explosion and pollution.
- The product is only used for emergency situations, it cannot replace the standard DC or AC power of household appliances or digital products.

Fast Charge 3.0 Technology: The power pack supports Fast Charge 3.0 output technology and 5V ~ 9V/2A output, can be used for smart phones and pads which adopts Qualcomm Fast Charge 3.0 technology. For exact charging voltage and current please contact the manufacturer for more details.

#### [Front]



Note: When the product is in overload or short-circuit protection, please remove the load and USB will automatically active.

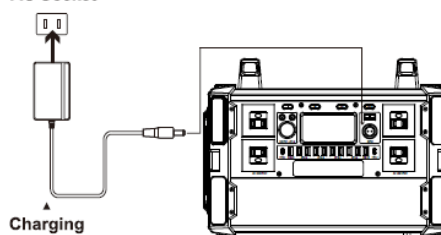
#### 5) How to charge the unit?

##### a. Recharge through AC Wall Charger

Using the AC Wall Charger plug the unit into any wall outlet to charge the unit. You will know the unit is charging when the blue LED battery indicators are blinking. The unit is fully charged when all battery indicators stop blinking and remain solid. After the unit is fully charged, please remove the AC wall charger in time.

#### [Right]

##### AC Socket



##### b. Charge from Solar panel

- Place your solar panel where it will get as much direct sunlight as possible.
- Plug the output of the solar panel into the input of the unit to start charging. You will know the unit is charging when the blue LED Battery Indicator lights up and blinks. The unit is fully charged when all battery indicators stop blinking and remain solid.

### [ V ] PRODUCT APPLICATION SKILLS

- 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°C ~ 30°C, so as to obtain the optimal charging capacity.
- When charging, in order to avoid interference, please stay away from TV, radio and other equipment.
- If the device has not been used for a long time, please disconnect the cable before store.
- Some portable devices may need to be set in charge mode to charge, see the corresponding equipment use manual for more information.
- 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.

#### Cold Weather Usage

Cold temperatures (below freezing) can affect the unit's battery capacity due to chemical characteristics of the battery. If you'll be living off-grid in sub-zero conditions, we recommend you keep your unit in an insulated cooler, and connected to a power source (solar panels). The natural heat generated by the unit contained in an insulated cooler will keep battery capacity at its highest.

#### Recycle

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

#### Battery information

Your device has 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 2000 times, but it will eventually wear out of power.

#### Statement

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## Portable Power Supply | 500W

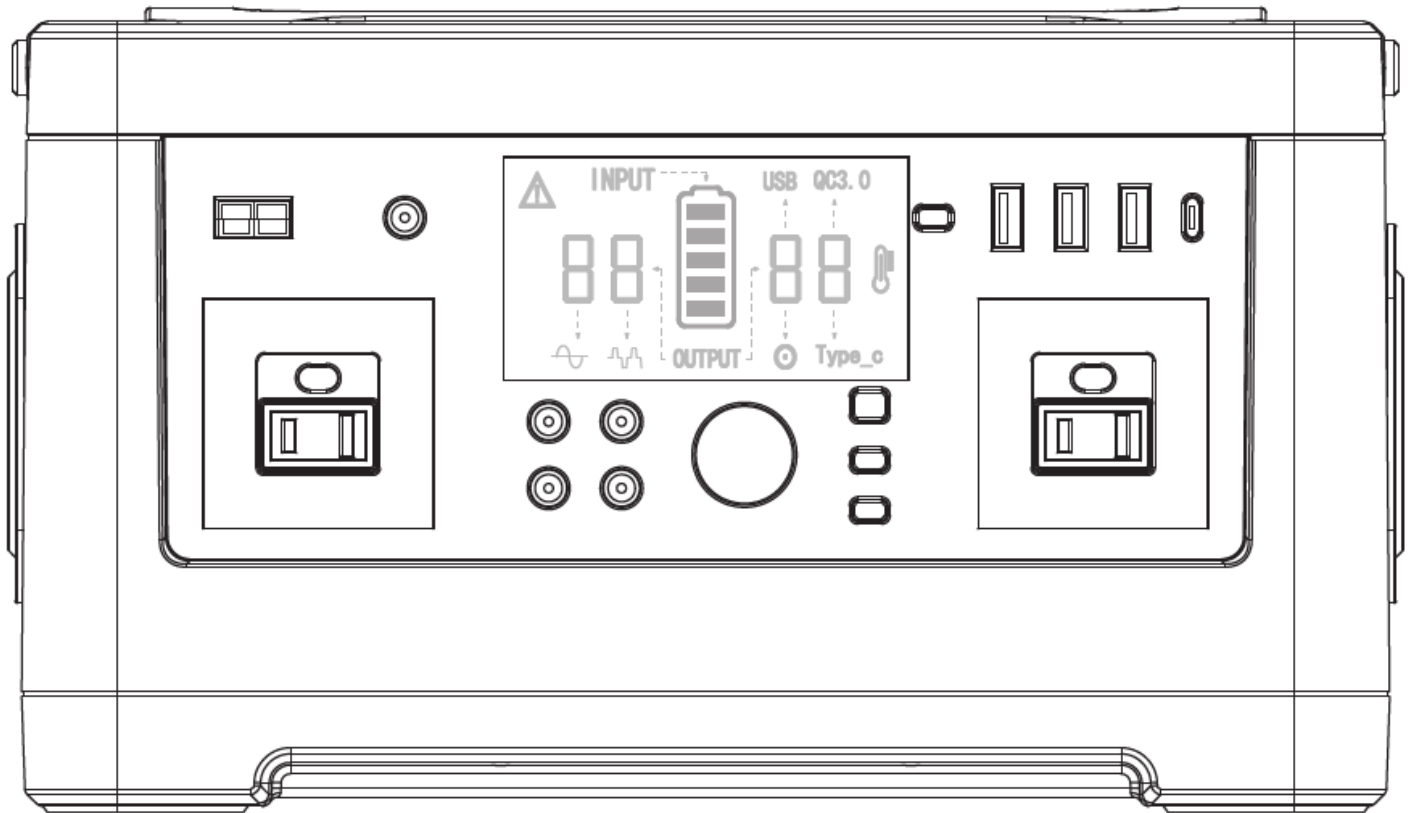
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If question exist, please call us @1-800-222-7023. We will be happy to answer any questions concerning this product.

Check all fasteners for proper torque. Check to ensure for adequate clearance between all components.

Periodically check all hardware for tightness.

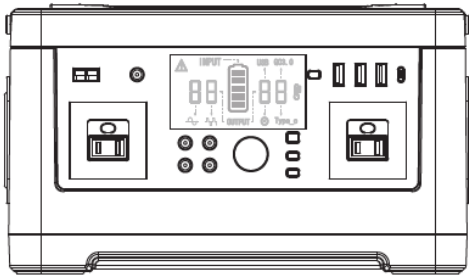


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# PORTABLE POWER SUPPLY

## Universal Instruction manual

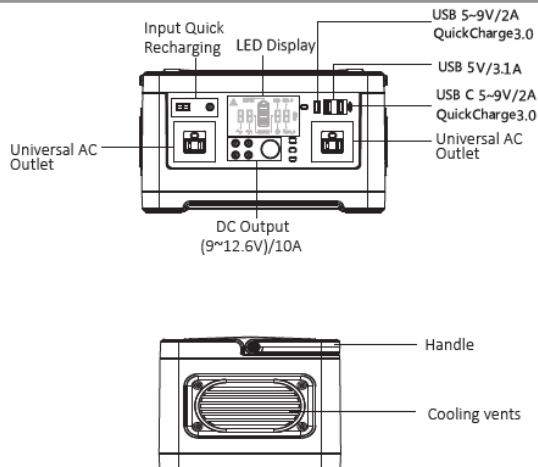


**ATTENTION:** This product user manual is universal for portable solar generator AC output range between 110V/60Hz. Actual product specification, actual AC outlets will be different according to different countries, areas or customers. Please refer to the actual product before you use the product.

DC Output	1x Cigarette Lighter Adapter 4x 5521 DC Output:9~12.6V/10A(12A Max total)
AC Power	AC Continous Power Output: 110V 60HZ, 500W,
Power Indicator	LED Display
Operation temperature	-10°C-40°C
Lifecycle	>600 times
Package include	1x Portable Power Supply 1x Power Adapter 1x Car Charger 1x user manual

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

### 【 II 】 PRODUCT DESCRIPTION



AC Outlet, AC output voltage and frequency will be different according to different countrise or areas, Please refer to the actual product before using.

### 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 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.

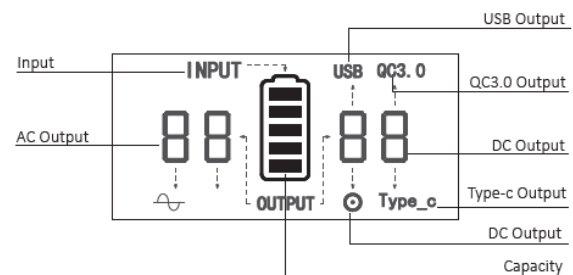
### The unit provides Sine Wave output

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.**

### 【 I 】 PRODUCT PARAMETERS

Capacity	520Wh (11.1v , 46.8Ah)
Dimensions(LWH)	306x200x176mm
Weight	about 6.4Kg
Built-in Battery	High Quality Lithium ion Batteries
Input Recharging	Adapter:DC15V/6A Solar Panel Charging: DC13V~22V/6A Max
Fully Charged Time	DC15V/6A : 8~9 hours
USB Output	1 X USB 5V~9V/2A Qualcomm QuickCharge 3.0 1 X Typ-c 5V~9V/2A Qualcomm QuickCharge 3.0 2 X USB 5V/3.1A

### 【 LED Display 】

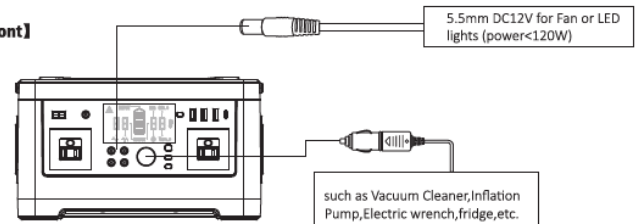


### 【 III 】 PRODUCT INSTRUCTION

1) How to provide power for DC12V appliances(such as head lamp, fan)with this product? The 5.5mm 12V DC output is plug and play. Plug your appliances to the DC output port to gain power. DC output rated power<120W, Max output<145W.

Notices: Please confirm whether your DC 12V appliance support charging with 5.5mm DC header interface(the diameter of the DC Port of the Product is:5.5mm), otherwise it unable to connect with the DC Output, you can consult the electrical manufacturer, buy the corresponding adapter and connect with it.

#### 【 Front 】



※ **Note:** The 12V DC output voltage is range between 9V~12.6V, maximum output current is 12A. DC output voltage drops while battery capacity drops due to chemical characteristics of the battery. If your appliance is not built-in input voltage stabilizing function, it may shutdown when input voltage is too low, please unplug your device from the unit in time. And please charge the unit in time.



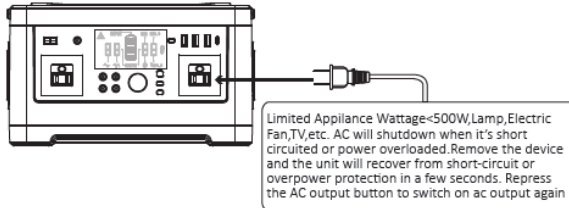
### Protection Mode:

short-circuit/Overpower Protection: If the DC output is short-circuited or overpowered (Load power > 120W), the unit will shutdown to protect itself. Please press the DC switch again to resume use.

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

Connect the power cable plug of the electrical appliance to the AC outlet of the product, switch on the POWER-AC button and the unit will start providing power to your appliances. WARNING! The AC outlets, AC voltage and frequency are different according to different countries; Please carefully check whether the product specifications are consistent with the appliance specifications before use, otherwise it can lead to dangerous situations.

#### [Left]



**Warning:** the plug standard and voltage differs according to countries, please make sure the socket standard matches your appliance before using, in case of any dangerous situations.

※ Please turn off the AC switch in time to save energy if you don't need AC output function

### Protection Mode

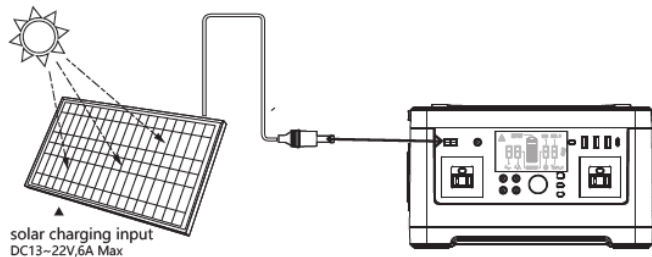
**Short circuit, over load protection:** For AC output Short circuit or over load (more than 600W) situation, the AC output function will be stopped, please remove the load and press the AC button for reactivation

※ Some electrical appliances, such as refrigerators, ice machines, laser printers, etc., there will be a peak power during start or working, which lasts very short time, but up to 1000W or above. The situation may activate the over load protection. Please remove the appliance, and press the AC button for reactivation.

### 3) How to use the power pack to supply the USB digital devices?

Connect the digital device to the USB interface of the power pack, press "USB" button, then it works.

※ Note: For some smart devices, such as the Bluetooth headset, LED lights, the charge current is very low, below 150mA, which is too low to be detected by the power pack, these smart devices can not get power from the power pack.



### c. Charge from your car with a 12V cigarette lighter.

Using the included car charger, plug the unit into a 12V cigarette lighter (car port) of your car. You will know the unit is charging when the blue LED Battery Indicator lights up and blinks. The unit is fully charged when all battery indicators stop blinking and remain solid.

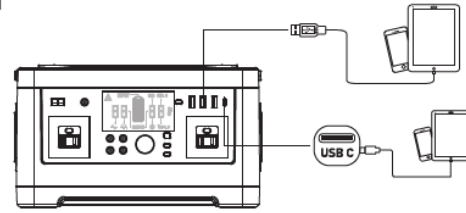
**Attention: To avoid car battery power loss. Charging this unit through your car cigarette lighter is only available when your car engine is started.**

## [ IV ] SECURITY AND MAINTENANCE

- 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.).
- 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.
- Keep away from high humidity, dusty places.
- Do not disassemble or reassemble this unit.
- In order to extend the life of product (lithium battery), it is best to charge within 3 Do not drop, place heavy objects on, or allow strong impact to this unit.
- 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.
- Children should be supervised to ensure that they do not play with the appliance.
- Do not cover the device with towels, clothing and other item.
- The unit may become hot when charging. This is normal. Use caution when handling.
- Do not charge the unit over the required time.
- Disconnect the unit when fully charged.
- Use the unit properly to avoid electronic shock.

**Fast Charge 3.0 Technology:** The power pack supports Fast Charge 3.0 output technology and 5V-9V/2A max output, can be used for smart phones and pads which adopts Qualcomm Fast Charge 3.0 technology. For exact charging voltage and current if these devices, please contact the manufacturer for more details.

#### [Front]

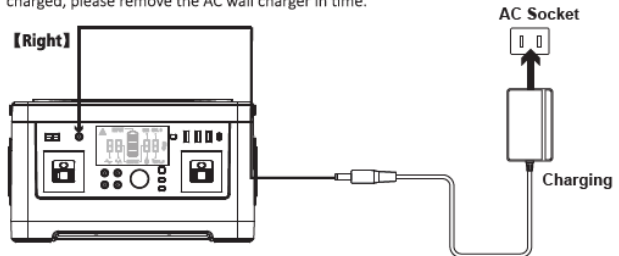


※ Note: When the product is in overloaded or short-circuit protection, please remove the load and USB auto activation

### 5) How to charge the unit?

#### a. Charge through AC Wall Charger

Using the included AC Wall Charger, plug the unit into any wall outlet to charge the unit. You will know the unit is charging when the blue LED battery indicators are blinking. The unit is fully charged when all battery indicators stop blinking and remain solid. After the unit is fully charged, please remove the AC wall charger in time.



#### b. Charge from Solar panel

- Place your solar panel where it will get as much direct sunlight as possible.
- Plug the output of the solar panel into the input of the unit to start charging. You will know the unit is charging when the blue LED Battery Indicator lights up and blinks. The unit is fully charged when all battery indicators stop blinking and remain solid.

m) Please deal with scrap products in accordance with the regulations, do not treat 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 situations, it cannot replace the standard DC or AC power of household appliances or digital products.

## [ V ] PRODUCT APPLICATION SKILLS

- 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 °C ~ 30 °C, so as to obtain the optimal charging capacity.
- When charging, in order to avoid interference, please stay away from TV, radio and other equipment.
- If the device has not been used for a long time, please disconnect the cable and store.
- Some portable devices may need to be set in charge mode to charge, see the corresponding equipment use manual for more information.
- 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.

## Cold Weather Usage

Cold temperatures (below freezing) can affect the unit's battery capacity due to chemical characteristics of the battery. If you'll be living off-grid in sub-zero conditions, we recommend you keep your unit in an insulated cooler, and connected to a power source (solar panels). The natural heat generated by the unit contained in an insulated cooler will keep battery capacity at its highest.

## 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 1000 times, but it will eventually wear out.

## Statement

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MADE IN CHINA

