

**PORTABLE LITHIUM BATTERY
ENERGY STORAGE POWER SUPPLY**

Manual

Notice

WARN!!!

When using this product, you should always follow basic precautions, including the following

- ※ Please read all instructions before using the product
- ※ To reduce the risk of injury, when the product is used near children, it must be closely supervised
- ※ Do not put your fingers or hands into the product
- ※ Use of accessories recommended or sold by non-power supply manufacturers may result in fire, electric shock, or personal injury risks
- ※ To reduce the risk of damaging the power charging plug and power cord, when disconnecting the power supply and charging, please try to unplug the plug instead of the power cord.
- ※ Do not use damaged or modified battery packs or equipment. Damaged or modified batteries may exhibit unpredictable behavior, resulting in fire, explosion, or risk of injury
- ※ Do not use damaged power cords or plugs, or damaged output cables to operate the power supply
- ※ Do not disassemble the power supply, and hand it to qualified maintenance personnel when it needs to be repaired or repaired. Improper reassembly may cause fire or electric shock hazard
- ※ To reduce the risk of electric shock, please unplug the power charging cable before attempting any indicated repairs
- ※ When charging the built-in battery, please work in a place with good access. Do not restrict access in any way.
- ※ Do not expose the power supply to fire or excessive temperature. Exposing to fire or a temperature higher than 130°C may cause an explosion
- ※ Qualified maintenance personnel use the same replacement parts for maintenance, which will ensure the safety of the product

Product Instructions

- ※ Low temperature may affect the battery capacity of convenient energy storage power products
- ※ The product can be charged in the temperature range of 0-40°C
- ※ The product can be operated in the temperature range of -20°C~60°C
- ※ Before you use it, it is recommended to charge the product to 100% before use

Preservation & Maintenance

- ※ For long-term storage, the mobile power bank must be fully charged and stored in a dry, cool place (recharge at least once within 10 months)
- ※ It is recommended to store the product in an environment with a temperature of about 23°C and a humidity of about 65%RH with more than 80% of the electricity.
- ※ Do not place the product in a place with a lot of oil and dust
- ※ After the product is dead, it should be charged within one week
- ※ Do not store the product for a long time when the power is off
- ※ If this product breaks down or is damaged during use, please contact the after-sales service or professional team for repair as soon as possible, please do not disassemble and repair by yourself



1 A portable generator

2 Box

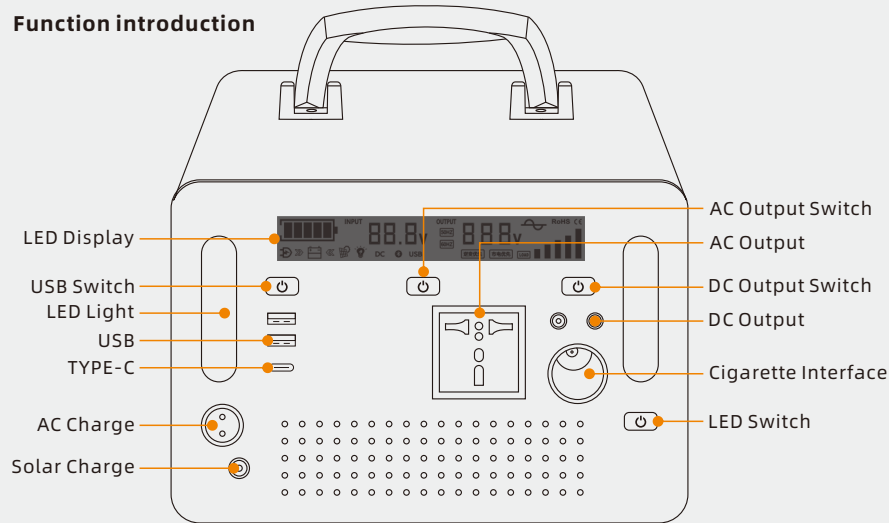
3 AC charger

4 Car charging cable

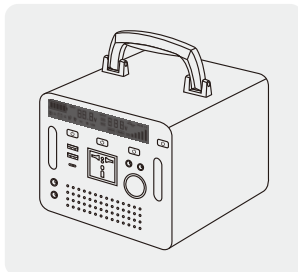
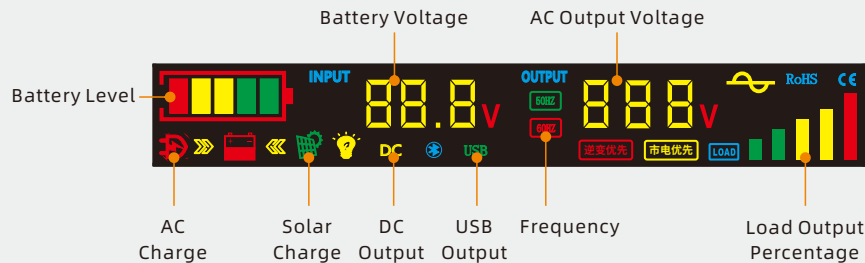
5 Manual

Panel Introduction

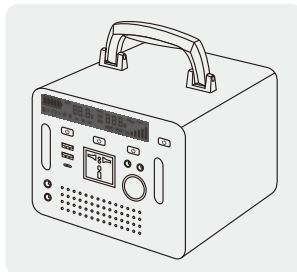
Function introduction



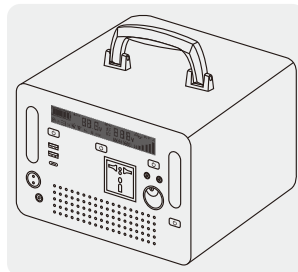
LED panel introduction



SIPS-300



SIPS-500



SIPS-1000

Protection Function

Battery over discharge protection

The battery selected for the external power supply is 4 strings of 3-element lithium batteries, and the operating voltage is 10.8-16.8VDC. When the battery voltage drops below 10.8V, the battery power is low and the power will be automatically turned off.

Battery overcharge protection

When the battery is fully charged, the battery voltage is 16.8V, and the battery's BMS management system will stop charging at this time

DC over-current protection

When the output current of the USB exceeds 3A, the output will be automatically stopped. After the load is removed or changed to a small load, the USB will resume normal operation.

When the output current of the DC output terminal and the cigarette lighter exceeds 10.5A, the DC output will stop working. After the load is removed or changed to a small load, the DC output will return to normal operation

AC output overload protection

When the AC load exceeds the rated power of the power supply, the system will automatically stop working. After removing the load or changing to a small load, restart the AC output switch of the power supply and the AC output returns to normal operation

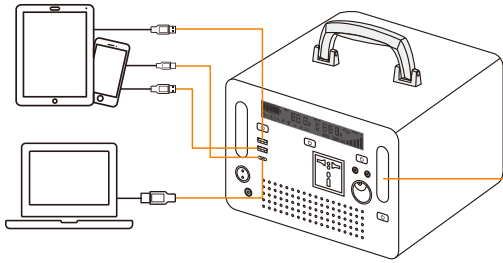
Over temperature protection

The temperature of the external power supply is mainly concentrated in the AC part of the inverter output. When the operating temperature exceeds 75°C, the power supply will automatically stop the inverter output. When the operating temperature drops and restart the AC output switch, the AC output returns to normal operation.

Specification

Model	SIPS-300	SIPS-500	SIPS-1000
Battery type	A Class LIO2 Lithium Battery(LiFePO4 Optional)		
Output wave	Pure sine wave		
Battery capacity	308WH	538WH	1000WH
Charge hour	About 5 hours	About 6 hours	About 7 hours
AC Output	Rated Power	300W/Peak 600W	500W/Peak 1000W
	Output Voltage	100V/110V/220V/230VAC	
DC output	USB-A	5V 2.4A fast charge*1	
	USB-B	QC3.0 fast charge*1	
	Type-c	5V3A,9V3A,12V3A,15V3A,20V3A PD60W	
	DC Socket	2*12VDC/10A	
	Cigarette Lighter	12VDC/10A	
DC Input	Solar Input	Max Solar Input 15A 60VDC	
	Grid Charger	Rated Grid Charger 5A	
Working temperature	-20°C ~ 60°C		
Products size	187*185*166mm	220*185*166mm	230*300*160mm
N.W. / Unit	4.5KG	7.5KG	11KG

Product power usage instructions



Press and hold the switch of the LED for 3 seconds to turn the LED light on or off. The external power supply is equipped with two 4W high-brightness LED lights. Please turn it off when not in use to avoid waste of power. When the LED light is turned on, please do not shoot your eyes directly to avoid the strong light from hurting your eyes

USB/TYPE-C Output



Turn on the USB output switch, the external power supply display screen lights up, and the display screen USB output light lights up at the same time, and the output of USB and TYPE-C is in working state at this time

TYPE-C interface: Support PD3.060W fast charging, which can provide fast charging for mobile phones and notebooks.

USB-1/USB-2: Two USB ports, each providing 2.4A high current USB output and QC3.0 fast charging

DC/Cigarette Output



Turn on the DC output switch, the external power supply display will light up, and the DC output light of the display will light up at the same time. At this time, the DC output connector and the cigarette lighter connector are in operation.

DC output connection: Two 12VDC 10A output DC connections are provided, which can drive loads such as DC fans and LED lights

Cigarette lighter interface: provide a 12VDC 10A output cigarette lighter interface, which can drive a portable vacuum cleaner, a refrigerator and other vehicles, etc.

You can recharge the battery of the mobile power supply through the on-board cigarette lighter connection in the screen

AC Output



Press and hold the AC output switch for 3 seconds, the external power supply display screen lights up, and the AC output voltage is read on the display at the same time. At this time, the AC output socket is working. After using the device, it is recommended to turn off the AC output switch Use to save power

The power of the AC load should be limited to the rated power, such as a 300W external power supply, and the total power of the connected load such as lights, fans, game consoles, etc. should not exceed 300W (500W and 1000W and so on).

When the output power of the external power supply exceeds the rated power, the power supply will automatically shut down and issue an alarm. At this time, reduce the load power and restart the power supply to resume normal operation

When the output of the power supply is short-circuited, the power supply will automatically shut down and issue an alarm. At this time, remove the load and restart the power supply to resume normal operation

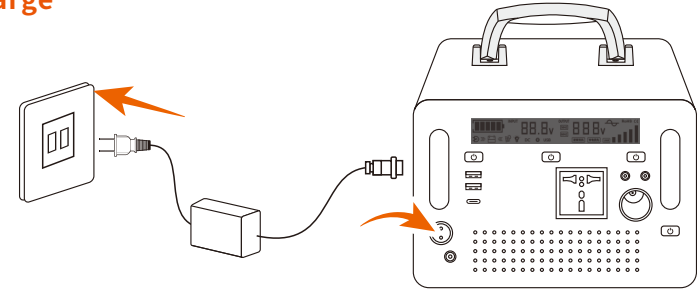
The AC output of the inverter is a pure sine wave, which can perfectly match all loads that do not exceed the rated power, including inductive loads, resistive loads and capacitive loads

Fan

The external power supply has a built-in intelligent temperature-controlled cooling fan. When the temperature of the power supply reaches 35°C or higher, the fan automatically starts, and when the temperature drops below 35°C, the fan automatically stops operating. The outlet and inlet of the power supply are located on the front and rear sides of the product. Please do not block the outlet and inlet during use to avoid poor heat dissipation and damage to the product

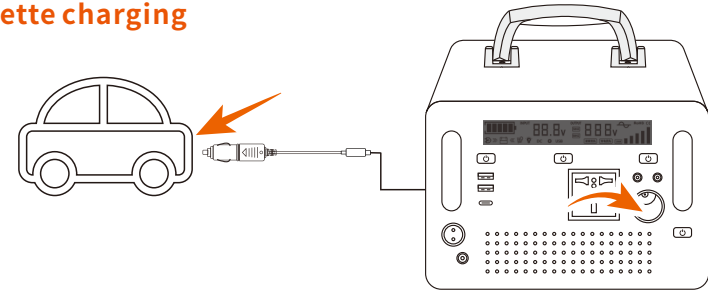
Product charging instructions

AC charge



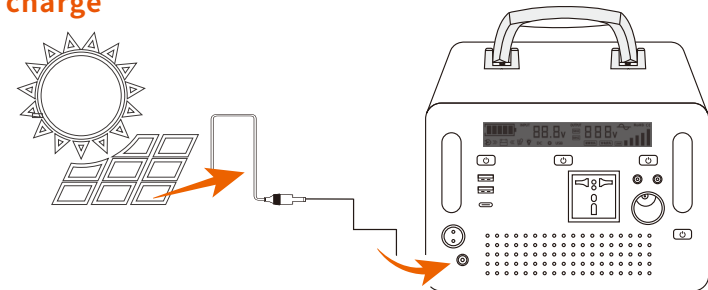
The mobile power bank is equipped with a 4A (300W), 5A (500W), 10A (1000W) mains charging adapter. When the commercial charging adapter is plugged in, the mains charging icon starts to flash, and it stops flashing when it is full. When the power supply is not charging, please unplug the charging cable

Cigarette charging



Turn on the DC output switch, connect the socket of the cigarette lighter to the socket of the cigarette lighter, and you can charge the external power source through the automobile
Remarks: In order to avoid loss of power to the car battery, it is recommended to use the cigarette lighter to charge the power supply after the car is started.

Solar charge



Plug the output terminal of the solar panel into the solar input terminal of the external power supply, and start photovoltaic charging at this time. The maximum power of the solar panel does not exceed 150W, the open circuit voltage does not exceed 35VDC, and the maximum current for photovoltaic charging is 15A

Question

Q1: Can the product be brought on?

A1: No, because this product is a lithium battery product, according to the international air transport standards and regulations, lithium battery products cannot exceed 100Wh

Q2: The device power is within the rated output power range of the product but cannot be used?

A2: a. Product power is less than 20%, need to add power
 b. Some devices start up more than the peak power of the product, or the nominal power of the device is more than the actual power of the product. It is recommended to use a more powerful energy storage power supply product

Q3: Why is there a sound when using it?

A3: The product adopts a cooling system, and the built-in fan can better help the product to dissipate heat. It is normal for a slight noise when in use

Q4: Is it normal for the charger to heat up when the product is charging?

A4: It is normal for the rechargeable charger to generate heat. The standard charger complies with national safety standards, please use it freely

Q5: Why is the output automatically turned off when the small power device is connected for a few hours?

A5: When the port is connected to a small load device, the product will automatically turn off the output at the time set by the system to avoid forgetting to turn off the output during use, which will cause the product's battery to run out

Q6: Can the convenient energy storage power supply be used while self-charging?

A6: When the power consumption of the device is lower than the charging function rate, it can be used while charging, but for the life of the product battery, it is recommended not to use it while charging. Note: When charging and using, the AC terminal does not provide output current

Q7: What are the charging methods for the convenient energy storage power supply?

A7: Convenient energy storage power supply has 4 charging methods:

- ① Standard adaptable mains charger for charging
- ② On-load charging
- ③ Solar charge
- ④ USB charge

Major troubleshooting

Failure phenomenon	Troubleshooting	Solution
Can not charge	The charger and the convenient energy storage power supply are not in good contact with the mains (the charging indicator light does not turn on at this time)	Check if the charger and product are in good contact with the mains
	Good contact, but the charging indicator light does not light up	The charger is broken, contact after-sales treatment
	The charging indicator light is on, but it still cannot be charged	The product is broken, contact after-sales treatment
No output	The connection line between the device and the product is not plugged in properly	Make the device and the product connect well
	The output port switch is not turned on	Turn on the port output switch and the indicator light will light up
	Low battery	Charge
	After the above conditions are eliminated, there is still no output	The product is broken, contact after-sales treatment
With device output interrupt	The nominal power or instantaneous start power of the used equipment is greater than the product power	Choose more powerful products
	After the above conditions are eliminated, the output will still be closed	The product is broken, contact after-sales treatment

Warranty after-sales instructions

Warranty rules

Each SIPS series portable lithium battery energy storage power supply host has a 2-year warranty, and the warranty period is effective from the date of purchase. To protect your maintenance rights, please keep the product after-sales service card

The following situations are not within the scope of reservation

- ①The appearance of the product is damaged after use
- ②Disassemble or repair by yourself
- ③Product performance failure due to reasons
- ④Damage caused by natural disasters, lightning, accidents and other irresistible factors

After-sales service card

Thank you for choosing our products. Please take good care of the after-sales service card so as to better serve you

Name _____ NO. _____

Tel _____ Date _____

Address _____

Repair date	Fault content	Maintenance staff	Remark