

LESSO

Portable Energy Storage

P5 Pro



PRODUCT OPERATION GUIDE

Introduction

Before First Unpacking



The service life of this product is 1 years, and its battery is able to support at least 1000 deep charge and discharge. Before first using this product or if you need to store it for a long time, please fully charge this product. For more tips and tricks to keep your battery healthy, see Precautions for battery.

If you need to store this product for a long time, please fully charge it every 3 months and store it in a cool, dry place. If the above steps are not followed and the battery consequently is damaged, the product warranty will be invalid. When charging this product, the battery segments on the display will flash sequentially, and all battery segments remain on when fully charged.

Product Specification

General Parameters

Product name: Portable Energy Storage
Output power: 600W
Battery capacity: 499.5Wh
Net weight: ≈5.1kg

Product model: P5 Pro
Product volume: 145x152x251mm
Operating temperature: -10~40°C
Noise level: 41.0dB Max

Charge mode: PV & car charger input: 5521 PV port (100W Max) and about 6~7 hours for full power. (Solar panel power exceeding 100W may trigger the protection mechanism, please reasonably choose solar panels)

AC input: About 1.67 hours for full power with AC input.

LED function: Always on - SOS - off. (3-mode cycle)

HMI display: Power percentage, power state, charge/discharge power, the port indication of remaining charge/discharge operating time, temperature indication, fan state.

Product feature: Bidirectional inverter (Without adapter, over 5 times faster than traditional power sources when charging.)

USB output: 36W (Support protocols: Apple 2.4A; QC3.0/2.0; FCP; AFC; DCP; SCP)

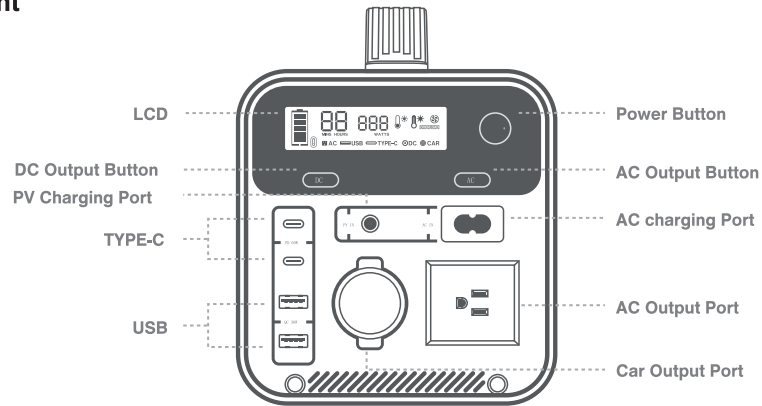
TYPE-C output: 60W (Support protocols: Apple 2.4A; PPS; PD3.0/2.0; QC4.0+/4.0/3.0/2.0; AFC; FCP; Low-voltage SCP/high-voltage SCP; PE2.0/1.1; SFCP)

Car output: 120W(12V==10A) output

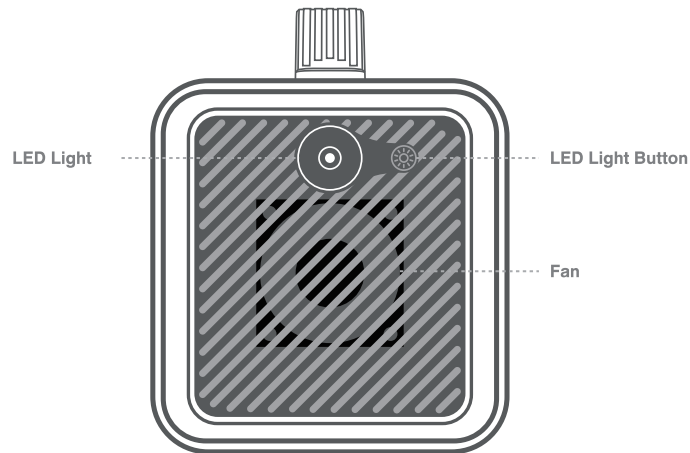
AC output: 110V pure sine wave output (600W)

Port Description

Front

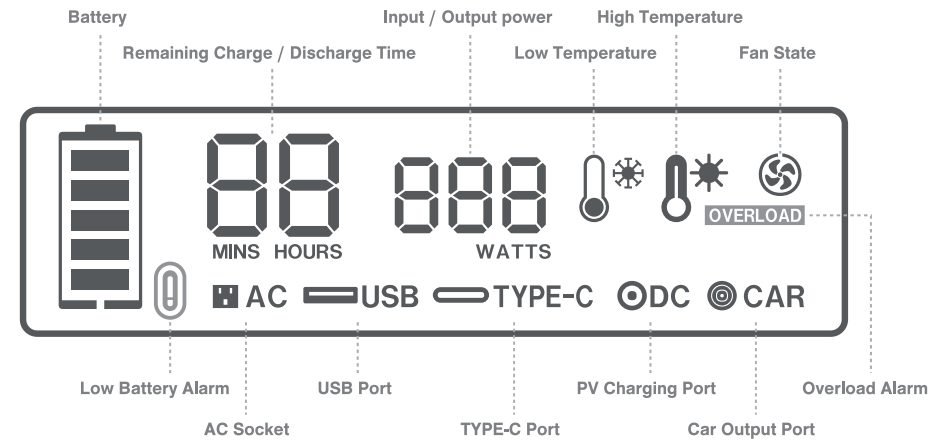


Back



* When using this product to charge a device that supports charge protocols (Such as mobile phones or notebooks), make sure that the device is oneway rechargeable; otherwise this product may not recognize the device to charge it.

LCD Description



Power Saving Mode

Front panel display sleeping mechanism: If no operation is done within 3min, the display will be turned off, and you can turn on it again by pressing any button.

AC sleeping mechanism: If the load is continuously below 5W or no load is detected within 60min, the load output will be automatically turned off.






DC sleeping mechanism: If the load is continuously below 2W or no load is detected within 120min, the load output will be automatically turned off.

USB sleeping mechanism: If the load is continuously below 2W or no load is detected within 120min, the load output will be automatically turned off.

General sleeping mechanism: After the outputs are not turned on again within 90min after being turned off, the product will be automatically powered off.




Display Function Description

Port Indicator Description







	USB-A Output Indicator	This icon will be on when the USB output control switch is turned on.
	USB-C Output Indicator	This icon will be on when the USB output control switch is turned on.
	AC Output Indicator	This icon will be on when the AC output control switch is turned on.
	PV Input Indicator	This icon will be on when the solar panel is used for input.
	CAR Output Indicator	This icon will be on when the CAR output control switch is turned on.

* If no power output is detected after connection, check whether the port is improperly connected.

Digital Indicator Function Description

	Battery power progress bar indicator	There are five battery segments on the battery icon corresponding to 20%, 40%, 60%, 80% and 100% dump power. When discharging, the battery segments gradually disappear to indicate the current dump power. When charging, the battery segments will flash sequentially until all remain on after fully charged. When a DC PV/cigarette lighter charging port is just plugged in, it may take a minute for this product to detect and adjust its charging circuit.
	Remaining charge / discharge time display	The time required to fully charge during charging, and the service time of remaining power during discharging. When HOURS is on, it indicates the remaining hours. When MINS is on, it indicates that the remaining time is less than 1 hour.
	Input / output power display (power meter)	When charging this product only, the battery icon flashes on the display and the number above the WATTS icon indicates the charging input power. When discharging, the battery icon shows the remaining power, the 2-digit number above the HOURS or MINS icon shows the remaining discharge time, and the number above the WATTS icon shows the output power.

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 Lowtemperature 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 Emperature 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 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.

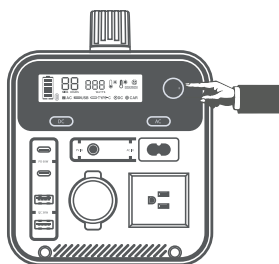
* If you still encounter other problems that you cannot solve during use, please contact your local dealer or our customer service. Please do not repair without permission or perform any operation that may void the warranty service.

Button Operation

1. Power On/Off

Long press the touch button for 3s to turn on this product. When the blue indicator light is on, this product can enter charge and discharge modes.

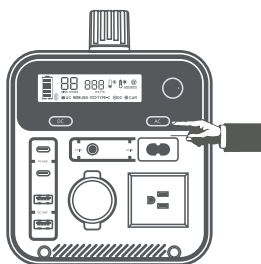
Long press the touch button for 3s to turn off this product. When the blue indicator light is off, discharge is not allowed.



2. AC On/Off

Short press once: Turn on AC output, and the blue indicator light of the button lights up.

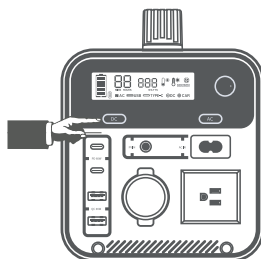
Short press again: Turn off AC, and the blue indicator light of the button lights off.



3. DC On/Off

Short press once: Turn on USB and DC cigarette lighter outputs, and the blue indicator light of the button lights up.

Short press again: Turn off DC/USB output, and the blue indicator light of the button lights off.

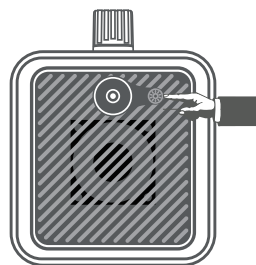


4. LED Light On/Off

Short press once: The LED light and the blue indicator light of the button light up.

Short press again: The LED light and the blue indicator light of the button light off.

In addition, short press the LED light button, the LED light can enter a 3-model cycle of on - SOS - off.



Product feature

1. LCD screen displays the operating state of each port.
2. It can be used in such emergencies as sudden power failure provided that it is connected with an adapter when not in use to keep it fully charged.

PV Charging

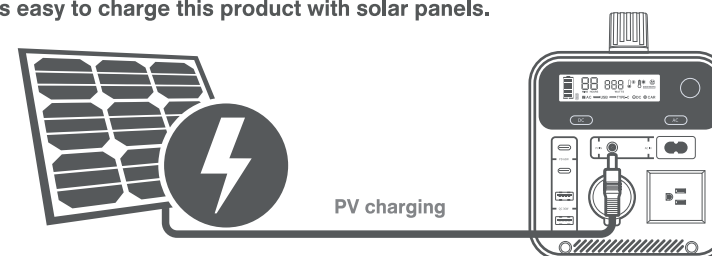


Important: When using solar panels to charge this product, please note that the output voltage in the solar panel specifications is 10~22V DC and the total output power is within 100W. Charging this product with solar panels that do not meet specifications may cause serious damage to it.

The port on the product to connect the PV charger is also a DC5521 port (PV IN).

1. When charging, please expose solar panels to more direct sunlight.
2. When charging, the battery segments on the display will flash sequentially and the charging power will be displayed. When fully charged, all battery segments remain on.
3. 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 (DC 18V/100W).

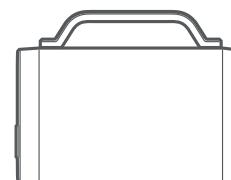
Warm Tip: It is easy to charge this product with solar panels.



Car Emergency Charging Operation

Car emergency start procedure

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



Positive Terminal (+)



Negative Terminal (-)



Charging This Product

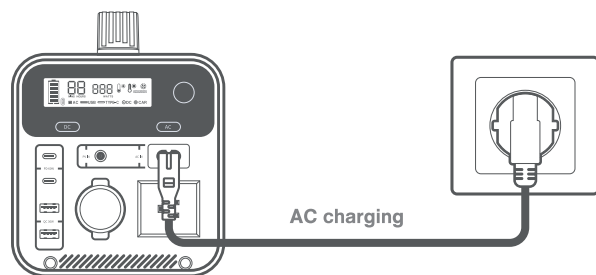


The service life of this product is 1 years, equaling 1000 deep charge and discharge. Before first using this product or if you need to store it for a long time, please fully charge this product and avoid a low battery state for more than three months. For more tips and tricks to keep your battery healthy, see Precautions for battery.

When charging this product, the battery segments on the display will flash sequentially, and all battery segments will remain always on when fully charged.

AC Charging

1. When charging this product with the charging cord in accessories, the battery icon will flash to represent protocol identification, and after identification, it will be always on, the battery segments will flash sequentially, and the charging power will be displayed.
2. When fully charged, all battery segments remain always on.
3. When AC charging with the charging cord, it takes 1 hour to charge 80% and about 1.67 hours to 100%.

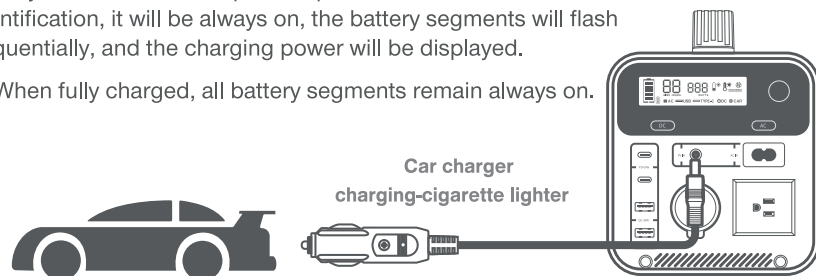


Important: When AC charging, this product does not support AC output.

Car Charger Charging

The port on the product to connect the car charger is a DC5521 port (PV IN).

1. When cigarette lighter charging with the charging cord in accessories, the battery icon will flash to represent protocol identification, and after identification, it will be always on, the battery segments will flash sequentially, and the charging power will be displayed.
2. When fully charged, all battery segments remain always on.



FAQ

Q. What type of battery is used in this product?

A. This product adopts the custom-designed lithium-ion battery.

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 to store the product?

A. Before storing, please turn off the product first, and then store it in a dry, ventilated place at room temperature. Do not place it near water sources. For long-term storage, please discharge the battery to 30% and recharge it to 60% every three months to extend its battery life.

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 under sired 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Warranty and Contact Details

1. Limited warranty

We pledge to original consumers and purchasers that this product will be free from defects in workmanship and materials under normal use during the applicable warranty period set forth in paragraph 2 below, except for the exclusions set out in paragraph 5 below. This warranty statement sets out the total warranty obligations. We do not assume, nor authorize anyone to, assume any other liability for us in connection with the sale of our products.

2. Warranty period

The warranty period of the product is 1 year. This is calculated from the date of purchase; the consumer needs to provide the sales receipt for the first purchase as proof in order to determine the start date of the warranty period.

3. Remedy

We will repair or replace (At our option and expense) any faulty product during the applicable warranty period due to defects in workmanship or materials.

4. Limited to original consumers

The service is limited to the warranty of the product purchased by the original consumer and is not transferable to any subsequent owner.

5. Exclusions

This product warranty does not apply: Any damage to this product due to misuse, abuse, modification, accidents, or non-normal purposes authorized based on product information at that time.

How To Get Warranty Service

If an end user needs repair within the warranty scope, LESSO will cover the freight of the product using its designated Courier. If the product is transported by other couriers other than those designated by LESSO, the freight will be borne by the user. The user is responsible or paying for external repairs made after the expiration of the warranty period, round-trip freight, and maintenance.

- ① Contact LESSO after-sales personnel to provide the following information: product model, product number (SN), order number, invoice information and reasons for non-conformity, as well as relevant photos and video files;
- ② Help LESSO after-sales personnel troubleshoot it. If the problem cannot be resolved or fails to meet the provisions of this agreement, LESSO will arrange for the repair of the product;
- ③ After the product has been repaired, the warranty period will be subject to the original period specified in the contract;
- ④ After-sales service contact: +86 757 2338 4828;
- ⑤ E-mail: energy@lessosolar.com;
- ⑥ Address: Daba Industrial Park, Longjiang Town, Shunde District, Foshan City, Guangdong Province.

Please note that this one-year warranty is a voluntary manufacturer's warranty and the legal warranty period for the product may vary depending on your location. This one-year warranty provides rights in addition and separate to, not instead of, legal statutory rights of consumers provided by applicable law, including but not limited to those relating to non-conforming goods, and it does not exclude, limit or suspend a consumer's rights arising from applicable law. Please consult the laws of your country for a full understanding of your rights.

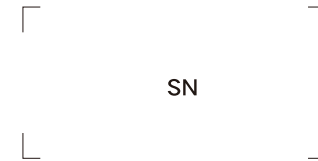
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Certificate of Quality

Quality Inspector: _____

Production Date: _____

The product is tested by our quality control and quality assurance department, is in line with the product standards and specified technical requirements and is ready to be shipped.



LESSO

Guangdong Lesso Energy Storage Technology Company Limited

Contact Information: +86 757 2338 4828

E-mail: energy@lessosolar.com

ADD: Daba Industrial Area, Longjiang Town, Foshan City, Guangdong Province



Made In China