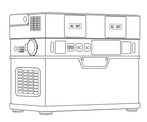
S700 V2.0

ALLPOWERS

Portable Power Station

Model:AP-SS-007



EN

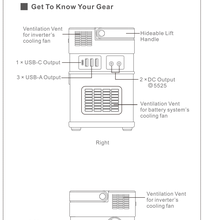
The products and materials described in this manual will be changed due to technical upgrades, we reserve the right to change the contents of this manual without prior notice.

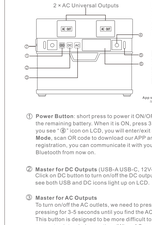
Congratulation on your solar generator purchase, a plug-and-play backup power integrates with solar regulating, storable energy system and cloud-based parental controls (Bluetooth app allows you to monitor solar charging at your figure-tips). With 606 watt-hours of power, you can keep your laptops, lights, AC/DC appliances running longer. Welcome to the solar life.

① Precautions before operating:

1. First, you need to ensure the power level of this generator is not too low before take it out. It is capable of charging and discharging at the same time, but solar charging is affected a lot by weather.
2. Lion-batteries cycle life can extend a lot with proper handling and usage .
   The most important note: You need to use it at room temperature: -10 ~ +40℃/14~104℉).
   Do make sure to avoid damp environments and do not store outside.
3. Be sure the rated running power of your device ≤700W,and the peak power <1400W. In some cases, the instantaneous power of particular appliances are 3 times higher than their rated running power.
4. It is normal for this unit to become warmer during charging/discharging. Please use it in a cool and well-ventilated place. (Keep it clear from naked flames, sparks or conductive materials when charging the battery).
5. Voltage and frequency from AC source might vary from country to country (AC100V~120V / UP 100V/ US 110V / UK&EU 230V / AU 240V). Please follow the local regulations to chose the correct version before using.

■ Get To Know Your Gear





① **Power Button:** short press to power it ON/OFF and check the remaining battery. When it is ON, press 3 seconds and you see "⚙" icon on LCD, you will enter/exit **Bluetooth Mode.** scan LCD code to download/install our APP and do the registration, you can communicate it with your Phone via Bluetooth from now on.

② **Master for DC Outputs** (USB-A USB-C, 12V-DC5525) Click on DC button to turn on/off the DC output and you will see both USB and DC icons light up on LCD.

③ **Master for AC Outputs**
To turn on/off the AC outlets, we need to press and hold the pressing for 3-5 seconds until you find the AC icon appears. This button is designed to be more difficult to operate to prevent unintended operation. (When AC mode is switched on, a cooling fan will run for a second in response to the self-testing ahead of the AC mode. For some countries, you may need to switch between 50/60Hz on APP after the AC on.

④ **Based-camp LED x 2**

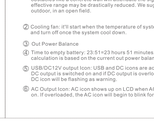
⑤ **Switch for LED Lamps** (Right and Left)

⑥ **Real-Time LCD Display** (see LCD Display section for more)

⑦ **12V Car Outlet**

■ APP

Real-time LCD Displays



① Bluetooth Icon: in normal use, the effective range for Bluetooth is 5-15M, but the surroundings indoors can vary a lot as obstacles like a concrete wall will attenuate the signal and the effective range will be drastically reduced. We suggest to try it outdoor, in an open field.

② Cooling fan: it'll start when the temperature of system go high and turn off once the system cool down.

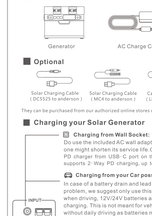
③ Out Power Balance.

④ Time to empty battery: 23:51+23 hours 51 minutes, the calculation is based on the current out power balance.

⑤ USB/DC-12V output icon: USB and DC icons are active once DC output is switched on and if DC output is overloaded, the DC icon will be flashing as warning.

⑥ AC Output Icon: AC icon shows up on LCD when AC mode is on. If overloaded, the AC icon will begin to flash to remind.

■ What's included



■ Optional

They can be purchased from our authorized online stores or email us for help.

■ Charging your Solar Generator

Charging from Wall Socket:
Do use the included AC wall adapter, another extra one might shorten its service life.Or charging with a PD charger from USB-C port on the other side, it supports 2~9V PD charging, up to 60W at maximum.

Charging from your Car possible :
In case of a battery drain and lead to a starting problem, we suggest only use this charging method when driving, 12V/24V batteries are suitable for charging. This is not meant for vehicles that sit a lot without daily driving as batteries may easily drop below 12V, please make sure your battery goes above 12.7V at least before charging. (Car charging cable not included.)

Charging from Solar(MPPT Regulating **)**
Charging from ALLPOWERS's fold-able solar charger/ regular 18V solar modules 100W, use MC4/DC5525 to Anderson cable.Different solar panels require different adapter to built connection, solar charging cable is not included.

Charged by PD Adaptor
You can use a PD adapter that supports PD fast charging protocol to charge solar generator through the USB-C port, the charging power is about 60W per hour.

Fully Charged Reference Time
(Only for information, take practicality as standard)

Charging Ways	Estimated Charging Time
AC Wall Charger(120W Input)	about 5-6 hours
Car Port（max 100W in）	about 5-6 hours
USB-C PD Adaptor（max 60W in）	about 10 hours
AC Wall Charger+USB-C PD Adaptor（max 160W in）	about 4 hours
Solar Panel(max 100W in)	about 5-6 hours

Common variables that affect performance of solar charging:

Trip: You can shorten the charging time by turning off the laptop.

The ideal time of day

Panels operate with high efficiency when the sun is most directly optically around mid-day.

Sunlight and its angle

The brighter the sun is shining, and the clearer the day is, the better the panels will work.
A south facing panel angle at 30-60 degrees from a flat surface will harvest the solar energy that is most possible.

Avoid any possible shelter

Make sure your panels are free of shade, even minor or partial shading reduces yields. Additionally, any dirt accumulated might decrease the wattage over time, so periodical cleaning the panel is recommended.

Time of year

The amount of daylight changes from season to season. But for temporary solar charging, it is essential to know that cold weather will negatively affect the performance of the panel's as they run on light, not heat.

■ Using Your Solar Generator to Power Devices

1 x USB-C: for smartphones, mini laptops equipped with PD fast charging standard, two way PD in/out up to 100W per hour.

3 x USB-A: for smart phones, portable banks,small USB fans, other USB-Powered devices.

2 x DC: for LED lamps, or any other devices required no more than 12V working voltage. (DC 5.5x2.5 mm socket, single port supply no more than 12V/5A.)

2 x AC universal out: for AC appliances, laptops (Be sure your device's rated running power ≤ 700W, and the initial starting wattage <1400W).
AC sockets are built with short-circuit protection, but they also should always be protected with the rubber plug when not in use.

Car Socket: Car On-board Fridges, 12V appliances, etc.
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■ Specifications

Batteries capacity	166400mAh 3.7V (606Wh)
Size/Weight	28.3×14×18cm/10.4×5.5×7.1 inch Net Weight:5.4 kg Gross Weight:7.15kg
In(inger light not included)	Voltage:12.7-24V Max. 5.0A (Max.100W)
In(Solar, MPPT)	Voltage:12.7-24V Current:5.0A (max 100W)
In(AC)	Voltage:12.7-24V Current:5.0A (max 100W)
Out(AC)	2 x USB 110V / JP 100V 700W or EU/UK 230V 700W（Startup Power 1400W）
Out(DC)	DC 12V Output: 12V5A(5.5×2.5mm)×2 12V cigarette lighter(≤ 12-13.6V)10A USB1: 5V3A USB2: 5V3A USB3: 5V3A USB-C: 5V/3A=15V/2A=9V/2A=20V/1.5A max 60W Total: 5V3A=15W 9V2A=18W 20V1.5A=30W 60W

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