



S200 V2.0

AP-SS-002  
Portable Power Station



■ User manual

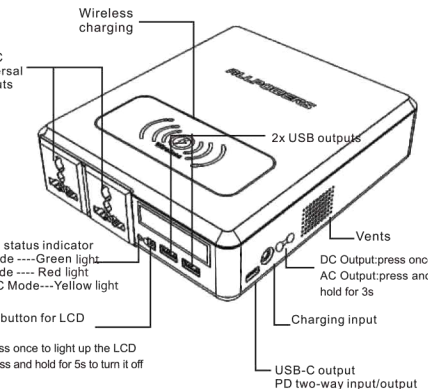
Thank you for choosing our Multiple Portable Power System, this unit is designed to keep you and your devices powered in case of power outage or you need to charge on a travel. Please read this user manual carefully before operation and keep this manual for future reference.

■ Precautions before operations

1. Do ensure the power level of this generator is not too low before taking outdoors. It is capable of charging and discharging at the same time, but solar charging result affects a lot by bad weather.
2. Batteries' cycle life extend a lot with proper maintenance and usage environment. Batteries inside are Lithium-ion ones cycles much longer time than normal SLA or AGM batteries. But all rechargeable batteries exhibit a self-discharge characteristic that varies by usage /storage temperature, state of health, etc. (Most important note: use at room temperature: 0 ~ +40(°C) /32~104(°F) , do avoid outdoor storage or damp environments.
3. Be sure your device's rated output power ≤ 200W, initial wattage < 240 wattage. In some cases, the initial starting wattage of some AC appliances is 3 times higher than its rated running wattage.
4. Unit might get warmer during charging/discharging which is normal, please use it in cool and well-ventilated place.
5. Voltage and frequency from AC source might be different from country to country (CN220V US110V JP100V EU/UK230V AU240V ) Make sure you've chosen the correct voltage and frequency accordingly.

⚠ **To better preserve its life span, it is suggested to recharge this unit at least once every 6 months, best to charge it every 3-4 months.**

■ Get To Know Your Product

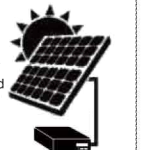


	INPUT: 88 W	Real-time Input Power
	DCOUT: 888 W	DC Real-time Out Power
	ACOUT: 8888 W	AC Real-time Out Power

The remaining running hours is measured by the total output wattage. If this generator is unloaded or in charging, the value will stay at 99 hr and goes off 20s later.

■ Two ways to recharge this unit

- ① To charge via wall outlet, you must use the standard 36W adapter, or buy a USB-C adapter with a maximum of 65W by yourself. The two can be superimposed to use a maximum of 99W input. With 36W wall adapter is fully charged for about 4-5 hours, with 65W USB-C adapter is fully charged for about 2-3 hours, and the two are superimposed to charge for about 1.5 hours.
- ② Charging from Solar: No charging cable included, user should buy a certificated cable separately. \*\*\*\*Pay attention that the maximum power voltage of your solar panel should not exceed 18V and wattage no exceed 99W, it takes approx. 1.5-2 hours to full battery under STC condition.



Common variables that affect solar charging performance :

- **The ideal time of day**  
Panels operate at peak efficiency when the sun is most direct-typically 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. You can monitor the values of input wattage when settle the panel's angel.
- **Avoid any possible shelter**  
Make sure your panels are free of shade, even minimum partial shading reduces yields. Additionally, any dirt accumulated might decrease the wattage over time, so periodically cleaning the panel is recommended.

**It is capable of charging and discharging at the same time, but to better preserve the life of batteries, we only recommend this for emergency use.**

■ Wireless Charging

- Output: DC5V1.0A at Max.  
Transmit distance: 5-8 mm  
Transmit conversion: ≥72%  
Charging frequency: 110-205 KHz  
Compatibility: it supports most smart phones that equipped with Qi standard technology or other Qi enabled devices. Otherwise, please pair with a Qi receiver.
- Warm tips:**
1. The case of certain phones (especially thicker ones), metal objects like metal phone cases and plates for magnetic attachment might interfere with wireless charging. Please remove before charging.
  2. During the charging time, the charging area might get warmer which is normal.
  3. For best charging performance, your phone must always be placed on the right center of the charging area.

■ Using Your Solar Generator to Power Devices

- For security reasons, DC (USB Ports, USB-C) /AC mode is activated by a master button accordingly.
- Before adding a load device, first press on [ON] to light up the LCD, then switch on DC/AC by pressing master button. After the load device is added, the LCD will show up output wattage and remaining running hours and goes off 15s later. We can short press on [ON] anytime if you need to check the LCD information.
- ⚠ Every time if AC mode is powered on, you will hear a cooling fan and the fan keeps running when the AC inverter is engaged.
- ⚠ Every time if outputting is done, please remember to exit DC/AC mode and make sure the green/red indicator goes off to save the loss of energy. ( We need to press for 3s on AC button to switch on/off AC mode.)

Warning :

- Use certificated cables to build the connection between your device and our generator as none-branded cable might bring up to 50% power loss.
- Different devices require different working wattage, you may have also noticed If you plug in devices that drain a high wattage (a refrigerator ), then the battery drop very quickly, and you may not get precisely 154 Wh energy. On the flip side, if you're recharging devices that draw wattage more slowly (a small TV), you will get closer to 154Wh from this unit

<p><b>Smartphone</b> 2000mAh 3.7V (17 Recharges)</p>	<p><b>LED Light</b> 10W (12 Hours)</p>	<p><b>Mini Small Fan</b> 5W (25 Hours)</p>	<p><b>Inflator pump</b> 20W (6 Hours)</p>
<p><b>UAV</b> 1000mAh 7.4V (17 Recharges)</p>	<p><b>Vacuum cleaner</b> 100-120W (1.2 Hours)</p>	<p><b>Laptop</b> 45W (3 Recharges)</p>	<p><b>Mini Fridge</b> 40-60W (3 Hours)</p>

⚠ **Storage and Downtime Maintenance**

1. To save the loss of energy, if outputting is done, do remember to switch off the DC/AC power master and make sure the indicator goes off before unplug your devices.
2. Do not touch the device, the power cord, or any other connected cables with wet hands. If you notice that the unit has any damage or cracks, is broken, or has other abnormalities, do NOT continue to use the unit and contact your dealer or our customer service center.

3. It is suggested to fully charge it at least once every 3-4 months for maintaining the best performance, reliability, and longevity.
4. Due to the chemical characteristics of the battery, the available capacity of the battery may somewhat vary from environment to environment such as cold weather or overheating. So please always use it in room temperature (0-40°C) also it is not recommended for outside storage or in damp environments.
5. If you are living off-grid in sub-zero conditions, we recommend you keep your unit in an insulated cooler and connect to a power source (solar panels). The natural heat generated will keep battery capacity at its highest.
6. Do not place it in, on or near heat sources, fabric material or exposure of direct full sun. (When it is recharging from solar, use a shelter to ensure the cooling.)
7. Avoid short circuit the unit, keep it away from all metal objects.
8. Please handle it with care, avoid hitting it with sharp objects or knocking heavily on it.
9. Avoid damp or dusty place, water or other liquids.
10. This unit is not intended for use by persons (including children) with reduced physical, sensory or mental capability, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliances by a person responsible for their safety.
11. The battery pack inside are non-removable, non-disassemble, the life-cycle for charged and discharged is over 500 times, but it will wear out eventually.

■ Specifications

Model	AP-SS-002
Input	AC Adapter ( included): 100-240V to 18V2A
AC Output	2x CN220V US110V JP100V EU/UK230V AU240V 200W Do not use any devices above 200W (240W at peak) for risk of damaging this unit.

DC Output	2 × USB : 5V2.4A ( 3.0A at Max. total for 2 ports) 1 × USB-C: 5V3.0/9V3.0A/12V3.0A /15V3.0A/20V3.0A (PD 2-Way 60W) Wireless charging: 5V1.0A
Temperature	-0 ~ +40(°C) /32~104(°F)
Li-ion Batteries	41600mAh 3.7V (154Wh)
Charging time	(1) AC Adapter ( included): 4-5 Hours; (2) PD65W USB-C Charger ( not included): 2-3 Hours; (3) Solar Input: 99W Max, 1.5-2 Hours; (4) AC Adapter & USB-C Charger Simultaneously : About 1.5 Hours
Modified Sine Wave Output	There is an built-in modified sine wave invert inside. The invert allows unit to safely power almost everything under 200-240 watts in your house that you would normally plug into the wall. Note: This product is only used for emergency, it can not replace the normal wall charger for long-term use.
Multiple intelligent safety protection	Over voltage, Overload, Short circuit, Over temperature (Outputting automatically stops and it will restart after problem is solved. )

Disposal Guide

1. If conditions permit, make sure that the battery is fully discharged before disposing it in a designated battery recycling bin. The product contains batteries with potentially dangerous chemicals, so it is strictly prohibited to dispose of it in ordinary trash cans. For more details, please follow the local laws and regulations on battery recycling and disposal.
2. If the battery cannot be fully discharged due to a product failure, please do not dispose of the battery directly in the battery recycling box. In such case, you should contact a professional battery recycling company for further processing.
3. Please dispose of over-discharged batteries that cannot be recharged.

■ Warranty

We have 18-month warranty for this product (from date of its original purchase) . If you have any concerns regarding to our product or service, please email us at [support@alpowers.com](mailto:support@alpowers.com), we will response within 1 business day!  
Website: [www.ialpowers.com](http://www.ialpowers.com)