

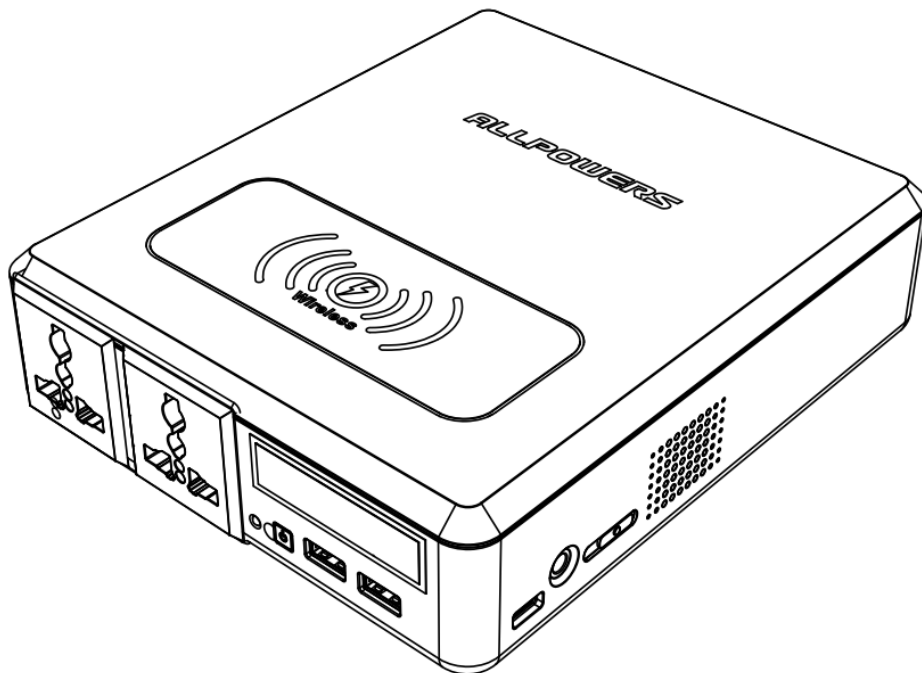


AP-SS-002 Portable Generator User Manual

[Home](#) » [AP](#) » AP-SS-002 Portable Generator User Manual 



AP-SS-002
Portable Generator
User Manual



Contents

- [1 AP-SS-002 Portable Generator](#)
- [2 Precautions before operations](#)
- [3 Get To Know Your Product](#)
- [4 Two ways to recharge this unit](#)
- [5 Wireless Charging](#)
- [6 Specifications](#)
- [7 Documents / Resources](#)
- [8 Related Posts](#)


AP-SS-002 Portable Generator

User manual

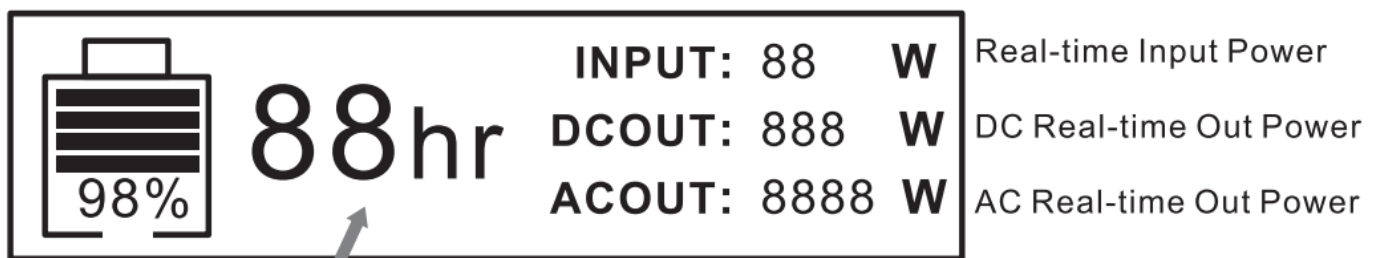
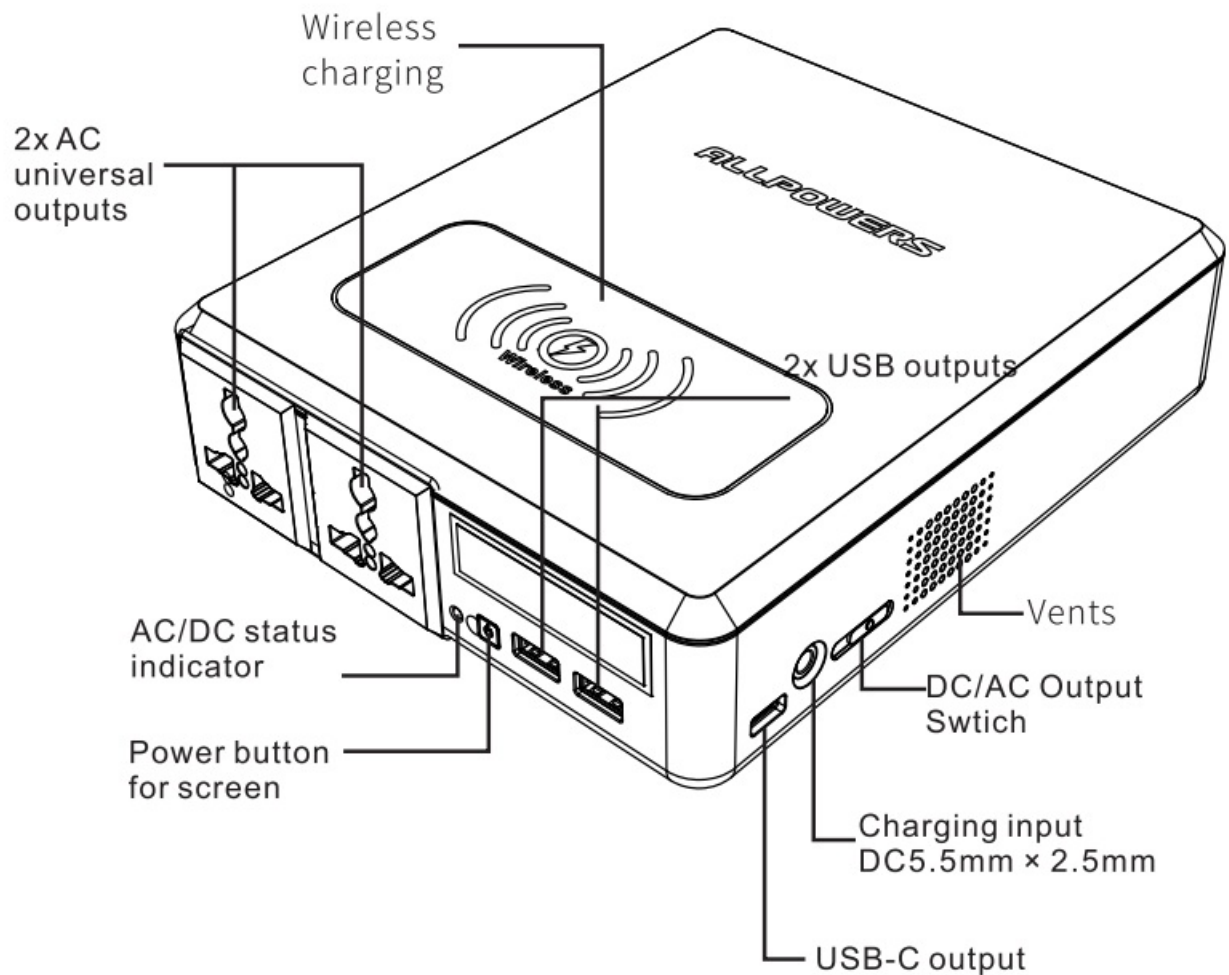
Thank you for choosing our Multiple Portable Power System, this unit is designed to keep you and your devices powered in case of a power outage or you need to charge on travel. Please read this user manual carefully before operation and keep this manual for future reference.

Precautions before operations

1. Ensure the power level of this generator is not too low before taking it 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 extends a lot with proper maintenance and usage environment. Batteries inside are Lithium-ion one cycle 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(t7)/32-104(T) do avoid outdoor storage or damp environments.
3. Be sure your device's rated output power is 100W, initial wattage < 120 wattages. In some cases, the initial starting wattage of some AC appliances is 3 times higher than its rated running wattage.
4. The unit might get warmer during charging/discharging which is normal, please use it in a cool and well-ventilated place.
5. Voltage and frequency from AC source might be different from country to country(US/JP 110V 60Hz or EU/UK 220V 50Hz). 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



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. Charging from Wall Socket: please do use the included charging adapter, another extra uncertificated one might shorten its service life. It takes approx.5-6 hours to get fully recharged, but this charging time is only for reference, please take practicality as standard. To ensure a full battery charge, continue charging for 1 additional hour.
2. Charging from Solar: No charging cable included, user should buy a certificated cable separately.(Input socket:DC5.5x2.5mm) Pay attention that uncertificated cables with high resistance might bring up to 50% power loss. The solar wattage recommendation is between 50-100W, it takes approx. 5-6 hours to the full battery under STC conditions.



Common variables that affect the performance of solar charging:

- 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 settling the panel's angle.

- 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: DC5V2.1A at Max.

Transmit distance:5-8 mm

Transmit conversion:72%


Charging frequency:110-205 KHz


Compatibility: it supports most smartphones that are equipped with Qi standard technology or other Qi-enabled devices. Otherwise, please pair with a Qi receiver.



Warm tips:

1. In 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 it 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 in the right center of the charging area.

■ Using Your Solar Generator to Power Devices

- For security reasons, DC (USB Ports, Type-C, Wireless) /AC mode is activated by a master  accordingly.

 Every time outputting is done, please remember to switch off the master and make sure the green/red indicator goes off to save the loss of energy.

- Before adding a load device, first short press on  to light up the LCD, then switch to DC/AC by pressing master . 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  anytime if it is needed to check the LCD information.

- Every time AC mode is powered on, you will hear a cooling fan and it will go off automatically for 5-10 seconds.

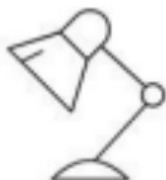
Important Note:

- Please do use certificated cables to build the connection between your device and our generator as non-branded ones 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 level of this unit can 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

Application Reference Time:



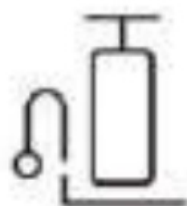
Smartphone
2000mAh 3.7V
(17 Recharges)



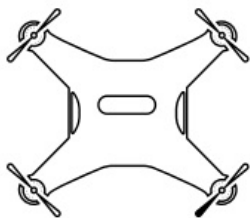
LED Light
10W
(12 Hours)



Mini Small Fan
5W
(25 Hours)



Inflator pump
20W
(6 Hours)



UAV
1000mAH 7.4V
(17 Recharges)



Vacuum cleaner
100-120W
(1.2 Hours)



Laptop
45W
(3 Recharges)



Mini Fridge
40-60W
(3 Hours)



Storage and Downtime Maintenance

1. To save the loss of energy, if the output is done, do remember to switch off the DC/AC power master and make sure the indicator goes off before unplugging 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 at 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 to direct full sun. (When it is recharging from solar, use a shelter to ensure the cooling.)
7. Avoid short circuit the unit, and keep it away from all metal objects.
8. Please handle it with care, and avoid hitting it with sharp objects or knocking heavily on it.
9. Avoid damp or dusty places, water, or other liquids.
10. This unit is not intended for use by persons(including children)with reduced physic], sensory or mental capability, or lack of experience and knowledge, unless-3 they have heron oven supervision or instruction concerning the use of the appliances by a person responsible for their safety.
11. The battery pack inside is non-removable and 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	100-240V ~ 50/60Hz Please do use the adapter(16.8V-2A) that came with this unit, never use a ny extra one.
AC Output	2 x US/JP 110V 100W or EU/UK 220V100W Do not use any device above DC100W/AC 120W for the risk of damaging t his unit.
DC Output	2 x USB: 5V3.0A (4.0A at Max.) 1 x USB-C: 5V3.0/9V2.0A/12V1.5A (QC intelligence corresponding) Wireless charging: 5V2.1A (2.4A at Max.)
Operate Temperature	-0 ~ +40(°C)/32 ~ 104(°F)
li-ion Batteries	41600mAh 3.7V (154Wh) Due to the unavoidable problem of power efficiency conversion, the real capacity may be different from the rated capacity.
Charging time for inbuilt batteries	5-6 hours Please use the wall charger provided, the charging time is for reference on ly.
Modified Sine Wave Output	There is a built-in modified sine wave invert inside, which means it generat es an output that is exactly the same as plugging with an AC wall plug in y our house. The invert allows the unit to safely power almost everything under 100-120 watts in your house that you would normally plug into the w all. Note: This product is only used for emergencies, it can not replace the nor mal wall charger for long-term use.
Multiple intelligent safety protectio n	Over-voltage, Overload, Short circuit, Over temperature (Outputting automatically stops and it will restart after the problem is solve d.)

■ Warranty

We have an 18-month warranty for this product (from the date of its original purchase). If you have any concerns

regarding our product or service, please email us at support@allpowers.net, we will respond within 1 business day! Website: www.iallpowers.com

Documents / Resources

	<p>AP AP-SS-002 Portable Generator [pdf] User Manual AP-SS-002 Portable Generator, AP-SS-002, Portable Generator, Generator</p>
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[Manuals+](#).