

Solar Portable Power Generator 600W
SKU:PPBCHA30

Table of Contents

1. Safety Guidelines	1
1.1 Precautions for Use	2
2. User Guide	
2.1 Parameter Specifications	3
2.2 Product Details	4
2.3 Introduction of Display Icons	5
2.4 How to Use the Product	6
2.5 Output Device Reference	7
2.6 Charging Method	8
2.7 BMS Protection Mode	9
3. Package Contents	10
4. FAQ	11
5. Warranty	
5.1 Warranty Description	12

Safety Guidelines

This product is designed with high safety standards, featuring a long-life, high-quality lithium iron phosphate battery and an ergonomic "handbag" design, making it safe and convenient to use.

Legal Disclaimer Notice

- Please ensure that you read the user manual thoroughly before using this product and retain it for future reference.
- Our company is not responsible for damages resulting from incorrect use or failure to follow the instructions in the "User Manual."
- Our company disclaims liability for damages resulting from fire, earthquake, third-party actions, accidents, intentional misuse by customers, abuse, or any other unusual circumstances.

Expected Usage

This product is intended for use as an outdoor portable power bank/battery for digital devices with a maximum power consumption requirement.

Caution:

Our products are not intended for use in equipment where personal safety and critical operations depend on power supply, such as medical devices, nuclear facilities, aviation, or spacecraft manufacturing. Our company is not liable for damages related to personal safety, fire, or equipment malfunctions resulting from such uses.

Precautions for Use

1. Prior to initial use, fully charge the battery to prevent any inconvenience due to low power.
2. Operate in a well-ventilated space and ensure nothing obstructs the ventilation.
3. Operate within a temperature range of -10°C to 45°C . Note that extreme cold can impact battery efficiency, but normal use will warm the battery and optimize performance.
4. Before use, confirm the voltage indicated on the product's back label matches your electrical devices to prevent damage.
5. It is normal for the battery to become warm during charging; the charger adheres to safety protocols.
6. To preserve battery quality and lifespan, recharge promptly when the battery is depleted.
7. The product is somewhat water-resistant. However, do not submerge it in water as this could damage internal components.
8. Avoid applying excessive pressure to the product and its solar panel when they are open.
9. Never disassemble, incinerate, or expose the product to temperatures exceeding 100°C .
10. This battery's capacity exceeds 100Wh as per "Air Transport Regulations" and is not permitted on aircraft.
11. Keep the product out of children's reach.

Parameter Specifications

Basic Information

Model:	PPBCHA30
Capacity:	614.4Wh
Net Weight:	10.5Kg
Size:	142*339*436mm

Battery Information

Material:	LiFePO4 (Lithium Iron Phosphate)
Cycle Life:	3500 times (after 3500 cycles, %80 of the capacity remains)

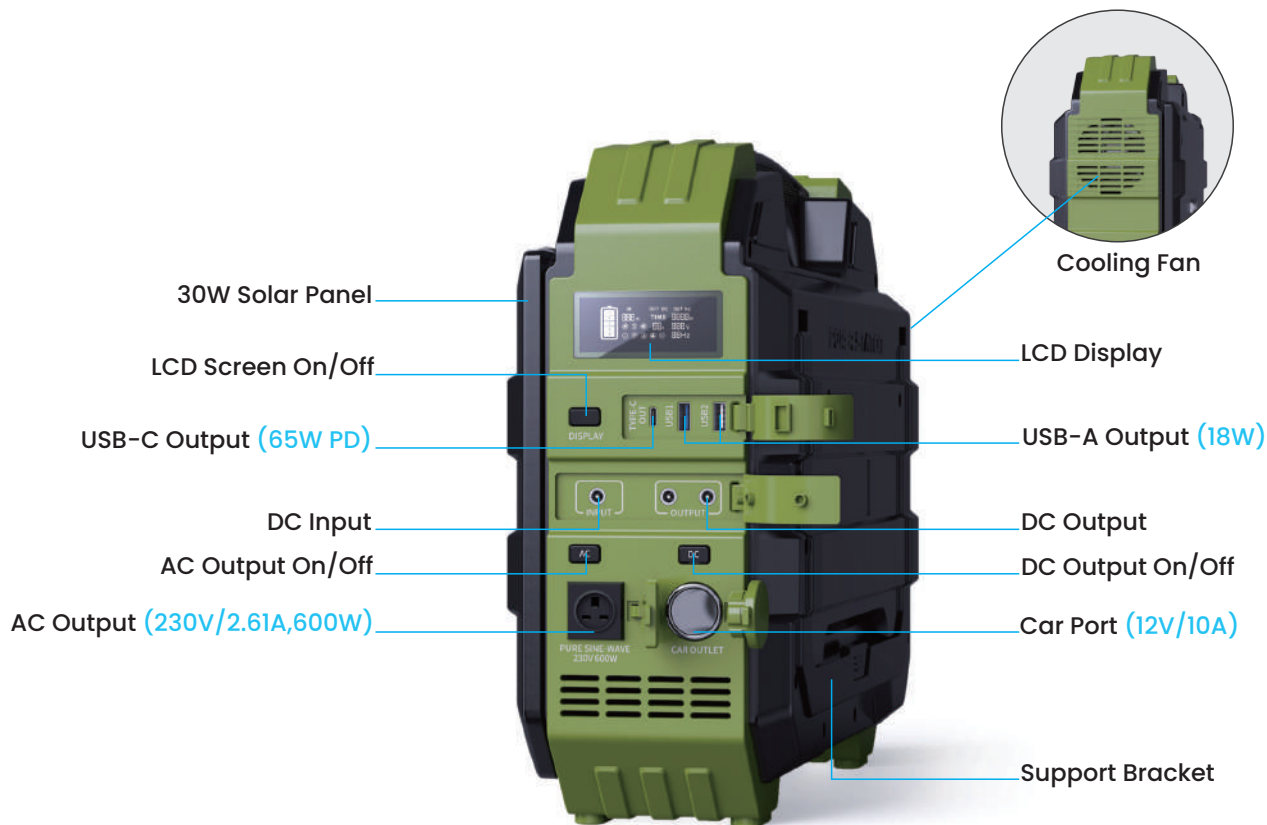
Input & Output Information

DC Input:	DC30-12 5521V/4.5A
DC Output:	2xDC12 5525V/10A (MAX)
AC Output:	Rated Output 600W (Peak 1200W) Sine Wave Output 230V/2.61A
USB Output:	2xUSB-A: 5V/3A,9V/2A,12V/1.5A
USB-C Output:	5V/3A,9V/3A,12V/3A,15V/3A,20V/3.25A
Car Output:	12V/10A (MAX)

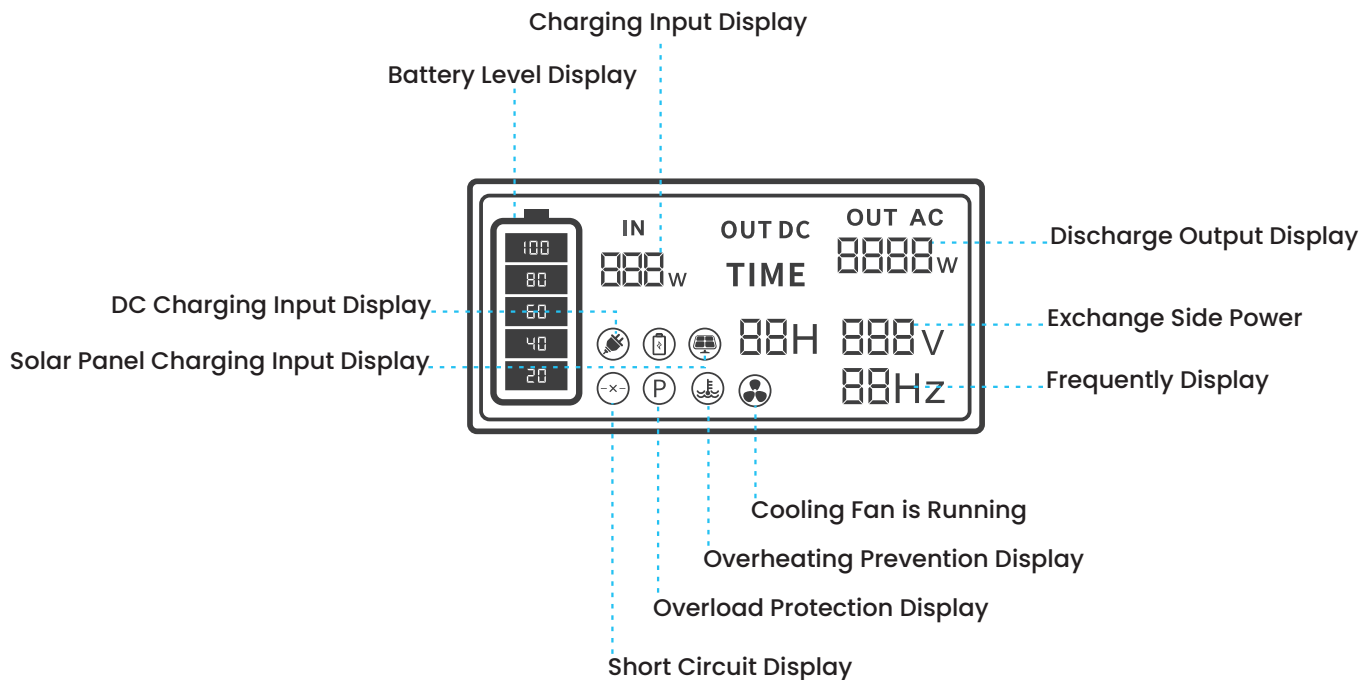
Safety Information

Protection:	High/ Low temperature protection, Over charge protection, Over discharge protection, Over voltage protection, Overload protection; Short circuit protection, Overcurrent protection.
Operating Temperature:	Best work temperature: 20°C to 45°C; Charging temperature: 0°C to 45°C; Discharge temperature: -10°C to 45°C.
Certification:	UL, FCC, PSE, CE, RoHS, REACH, MEIT, MSDS, UN38.3

Product Details



Introduction of Display Icons



How to Use the Product

Power Supply for DC Devices

Activate the DC output by pressing the switch. The LCD will display "OUT DC", indicating readiness to charge DC devices. Remember to turn off the DC output when it's no longer in use.

Power Supply for AC Devices

Engage the AC output by pressing the switch, and the LCD will show "OUT AC", signaling that the power bank is set to charge AC devices. Always turn off the AC output post-use.

Note: The AC output specification is 230V~50Hz, 600W. Ensure compatibility with the input voltage and frequency requirements

Switch Explanation

***LCD Switch:** Press to display the remaining power. The display will automatically power down after 15 seconds if no AC/DC output is active.

***AC Output Switch:** Press to initiate the AC output; the display will indicate "OUT AC". Press again to deactivate the AC power output.

***DC Output Switch:** Press to enable the DC output; the display will indicate "OUT DC". Press once more to deactivate the DC output.

Output Device Reference



12 Charges

Laptop (50Wh)



55 Charges

Phone (3208mAh)



21 Charges

Pad (28.6Wh)



41 Charges

Camera (15Wh)



61 Hours

Fans (10W)



30 Hours

LWD light (20W)



61 Hours

Router (10Wh)



4.3Hours

TV (140W)



61 Hours

Portable Radio (10W)



20 Charges

Drone (30Wh)



12 Hours

Car refrigerator (50Wh)



15 Hours

CAPA Machine (40W)



2.4 Hours

Wall breaker (250Wh)



10 Hours

Projector (60Wh)



10 Hours

Speaker (60W)

Charging Method



Adapter
DC24V/4.5A 6 Hours



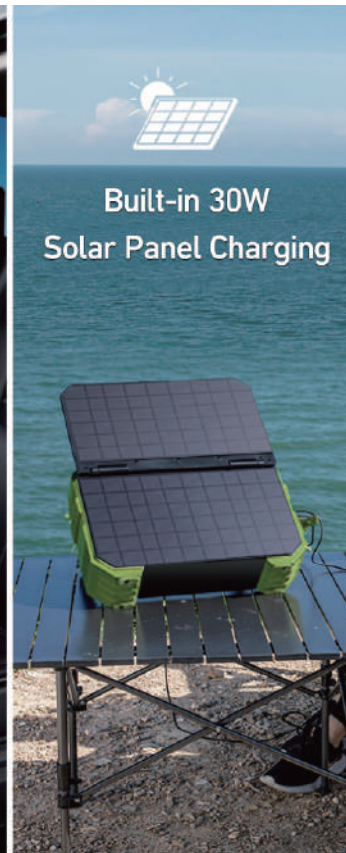
Solar Panels Charging
DC12-30V/4.5A






Car DC
12-24V 6-12Hours



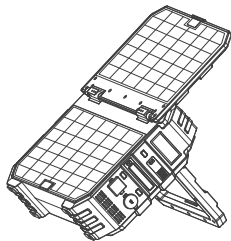
Built-in 30W
Solar Panel Charging



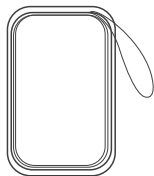
BMS Protection Mode

- 1. Low Voltage Protection:** Critical battery levels trigger a warning light  ; halt charging to protect from over-discharge.
- 2. DC Over-current Protection:** Exceeding the DC current limit triggers **OUT DC** to flash and the output to shut off, accompanied by an alert tone "dip-dip-dip". Rectify by disconnecting some devices and restarting the DC output.
- 3. DC Short Circuit Protection:** A short in DC output will cause **OUT DC** to flash and the system to shut down, emitting a warning tone "dip-dip-dip". After resolving the issue, you may restart the DC output.
- 4. AC Overload Protection:** Overloading the AC output triggers a "dip-dip-dip-" sound and the power indicator **OUT DC** to flash, prompting you to adjust your usage to the rated power range of $\leq 600\text{W}$.
- 5. AC Short Circuit Protection:** An AC short will result in a shutdown, a "dip-dip-dip" sound, and an alert icon  on the display, advising you to troubleshoot and then reset the AC output.
- 6. Overheat Protection:** Overheating due to excessive temperature or power use during AC operation activates a fan icon  and a "dip-dip-dip-" sound, urging you to ensure proper ventilation and cool down the unit. The power bank resumes normal operation once it cools.

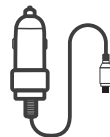
Package Contents



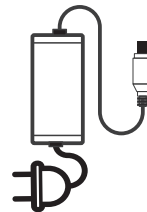
1× Portable Power Station



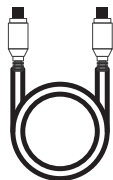
1× Bag for Accessories



1× Car Charging Cable



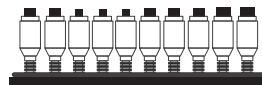
1× Power Adapter



1× DC Output/Input Cable



1× User Manual



10× DC Plug Conversion Adapter

DC Plug Conversion Adapter

A: 6.5*4.4mm pin B: 6.3*3.0mm C: 5.5*2.5mm D: 5.5*2.1mm E: 5.5*1.7mm

F: 4.8*1.7mm G: 4.0*1.7mm H: 3.5*1.35mm J: 7.4*5.0*0.6mm pin K: 7.9*5.5*0.9mm pin

Problem	Troubleshooting	Solution
The power bank won't turn on.	Check if the charging cable is properly connected at both ends and that the display is on.	Securely connect both ends of the charging cable.
No output is active.	Confirm if the AC/DC output switch has been engaged.	Press the AC/DC output switch.
	Check that the electrical devices are properly attached to the power bank.	Ensure the power cable is firmly connected.
	Consider if the power bank battery is depleted.	Recharge the power bank.
The output ceases after being active for some time.	The device's rated power might exceed the power bank's capacity, or the initial surge power required is too high.	Connect the device to a power source capable of a higher output.

Warranty Exclusions

Warranty does not cover the following situations:

1. Cosmetic damage sustained through use.
2. Tampering, unauthorized alterations, or repairs.
3. Failures due to misuse or human error.
4. Damage from natural events, electrical surges, or accidents.

Customer Support

For assistance, please reach out to our customer service team.

Website: powerology.me

Service Support: hey@powerology.me

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