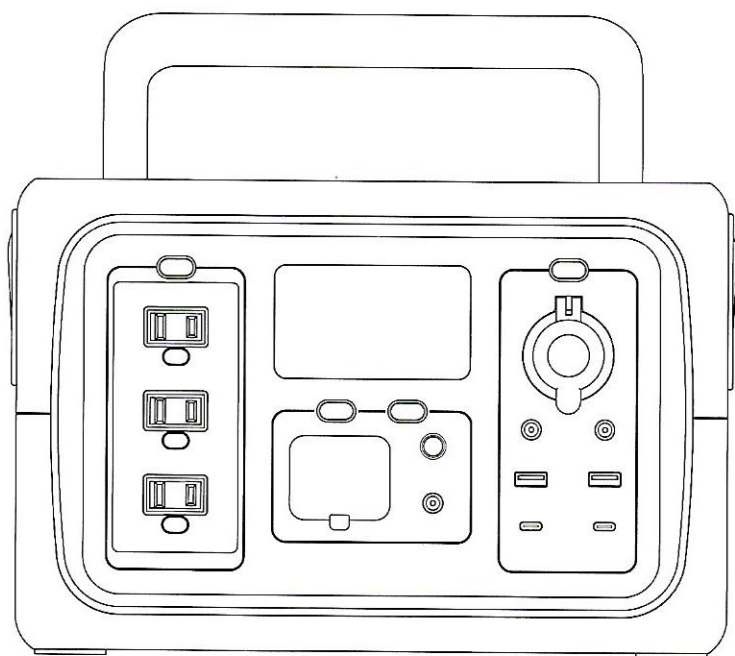


VOLTINELA

500W Portable Power Station
Emergency Power Source

User Manual



CENTINELA 500

Preface

Thank you for purchasing this 500W portable power station.

This portable power station has a powerful battery capacity of 512Wh, supporting AC wall outlets, solar panels and vehicle charging ways, and is designed to keep your electronic devices powered while on the go.

It comes with AC outlets, 12V DC output ports, 12V car port, Type-C port and fast charging USB ports 3.0 for your convenience. Perfectly for outdoor travel, it is compatible with most electronic devices such as drones, laptops, lights, smart phones, tablets and cameras.

You can charge your electrical or digital devices with this unit in case of a power failure or when you are out or on a road trip.

It also works as an emergency power kit. Especially, it's suitable for locations that are prone to severe weather patterns and natural disaster related power failures including typhoons, floods, hurricanes, earthquakes, forest fires, snowstorms and low-temperature disaster-prone areas.

The power station is also suitable for camping and works well in keeping outdoor electrical appliances charged for uses such as night time power supply, medical power supply and general household electricity storage.

Package Contents

- 1 * AC Power Cord
- 1 * DC Cable
- 1 * User Manual

Warm Tips:

Before using our power station, please read the following instructions carefully:

1. This power station has a built in lithium battery which is highly sensitive to high temperature - Keep it away from heat sources like direct fire or any heat sources.
2. Keep away from moisture or water.
3. Do not disassemble microwave, puncture, incinerate or insert foreign objects into the power station.
4. Do not crush, bend, shred, drop or place heavy objects on top of the device.
5. Do not use the product if damaged or punctured.
6. Always be prepared - Charge the unit every three months also if it is not used.

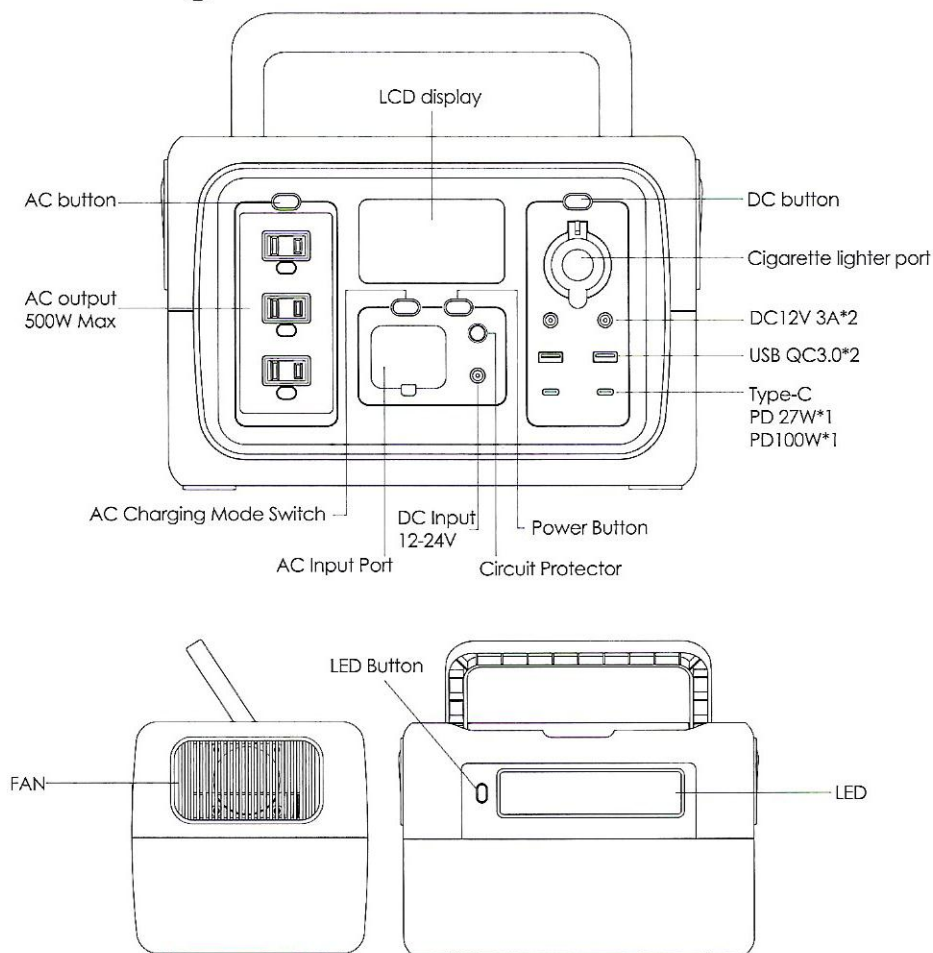
Technical Specification

Battery Capacity	LiFePO ₄ 512Wh±5%(20Ah/25.6V)
AC Input Charging	AC100~120V/200W Max
Car Input Charging	DC12V~24V/120W Max
Solar Input Charging	DC12V~24V/120W Max
Output Port	AC Output*3: 120V, 60Hz, 500W, Peak 1000W
	USB-A1: QC24W Max, (5V3A&9V2A&12V2A QC3.0) USB-A2: QC24W Max, (5V3A&9V2A&12V2A QC3.0) USB-C1: PD27W Max, (5V2.4A&9V3A&12V2.25A PD3.0) USB-C2: PD100W Max, (5V3A&9V3A&12V3A&15V3A&20V5A PD3.0)
	1*Cigarette Lighter+2*DC5521 Rated Output, 13.8V/10A (Total 10A Max)
AC Output Waveform	Pure Sine Wave
LED Light	3W Max, 3 Levels(L/M/H adjustable), SOS function
Safety Protection	Short-Circuit Over-Current Over-Voltage Low-Voltage Over-Load Over-Temperature
Operation Temperature	0~40°C(32~104°F)
Battery Life Cycle	2000times DOD≥80%
Pass-Through Charging	Support
Weight	6.3kg/13.9lbs

Using Your 500W Power Station

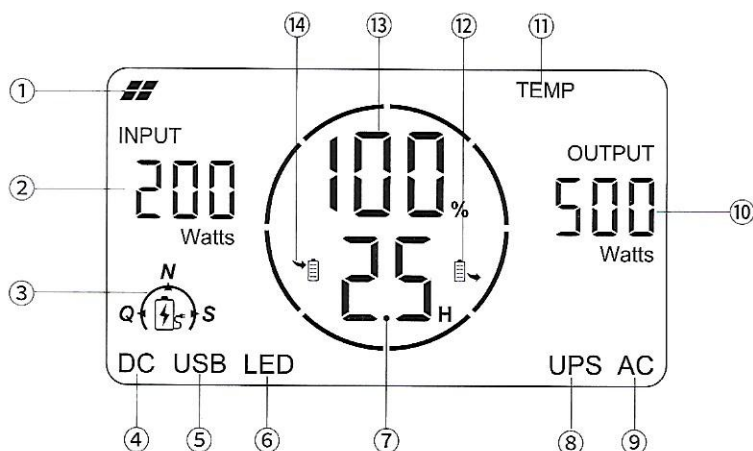
1. Press the power button or any other port button to turn on the unit. When not using certain ports, it is best to turn them off to conserve power.
2. Read the LCD screen to know which port is turned on.
3. Plug in your gear.
4. Your unit supports full pass-through charging so you can charge your power station and run your gear at the same time.

Product Diagram



*The circuit protector is an electrical safety switch designed to protect your unit from damage caused by over-current or short circuit. When the AC output exceeds 7A or 800W, it will trip automatically. Press it once to reset the unit after these symptoms cleared.

LCD Display



①	Solar Panel Input Indicator	⑧ UPS	UPS Function Indicator
② INPUT 200 Watts	Input Power	⑨ AC	AC Output Indicator
③	Charging Mode Indicator(Q,N,S)	⑩ OUTPUT 500 Watts	Output Power
④ DC	DC Output Indicator	⑪ TEMP	Temperature warning
⑤ USB	USB Output Indicator	⑫	Output power Indicator
⑥ LED	LED Indicator	⑬ 100%	Remaining Battery Percentage
⑦ 25 H	Remaining Usage Time or Remaining Charging Time(Hour)	⑭	Input Power Indicator

*The remaining usage time depends on the real-time output wattages of the loaded devices.

The remaining hours tells the remaining charge/discharge time. It will prioritize displaying the remaining discharge time when charging and discharging simultaneously.

Auto-Sleep Mode:

To avoid forgetting to turn off the output during use, which will lead to unused battery consumption, this unit will turn to Auto-Sleep Mode when no device is connected or the connected device is less than or equal to a certain value. The unit will automatically shut down after 1 hour. Refer to the table below for more details:

Output	Output Power	Defaults
AC Output	$\leq 2W$	The device will automatically shut down after 1 hour
USB Output	$\leq 2W$	The device will automatically shut down after 1 hour
Car Output	$\leq 2W$	The device will automatically shut down after 1 hour

*Press any of the port buttons to restart the power station.

*The unit will enter into Auto-Sleep Mode when not output is detected after 1 hour. User can switch the time through the following setting.

Set up time to 1 hour or 12 hours by long pressing "DC" button for 5 seconds. Please check the time on the LCD screen within 5 seconds after hearing the buzzer sounds. It shows the set standby time.

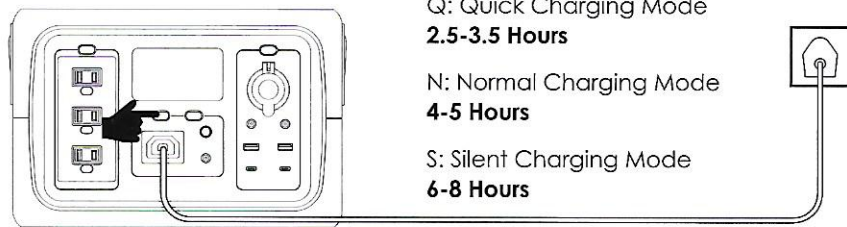
The Auto-Sleep time is 1 hour: If there is no power output within 1 hour, the Auto-Sleep Mode is activated, and the power station will be automatically turned off.

The Auto-Sleep time is 12 hours: If there is no power output within 12 hours, the Auto-Sleep Mode is activated, and the power station will be automatically turned off.

Ways to Recharge

1.AC Wall Charging

Please plug the unit into the standard wall outlet and start charging.
This power station supports Quick/Normal/Silent charging modes. The default charging mode of the unit is "N" charging mode, Press the AC Charging button to switch these 3 charging modes.



Q: Quick Charging Mode

2.5-3.5 Hours

N: Normal Charging Mode

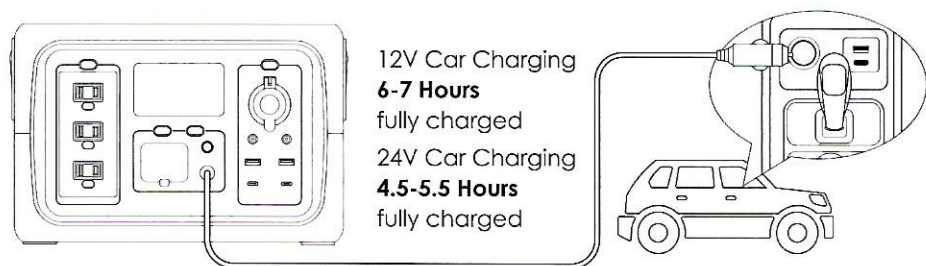
4-5 Hours

S: Silent Charging Mode

6-8 Hours

2.DC Vehicle Charging

Please connect the unit directly to the vehicle plug-in cigarette lighter port via the car charging cable.



12V Car Charging

6-7 Hours

fully charged

24V Car Charging

4.5-5.5 Hours

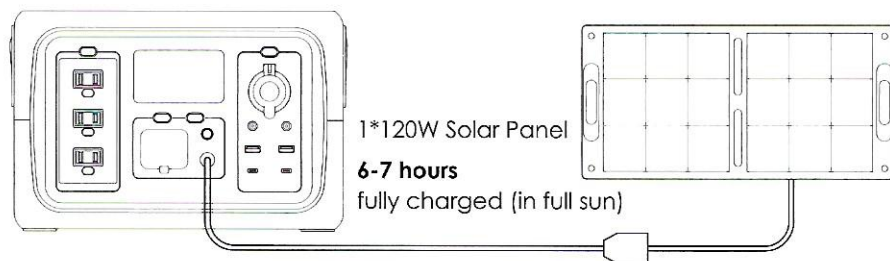
fully charged

 Cigarette lighter **MUST** be fully inserted into the lighter port of the machine.

3.Solar Charging

Note: Please make sure your solar panels comply with Open Circuit Voltage of DC12-24V.
The Max Solar Input Power of the power station is 120W.


We recommend a 100W-120W solar panel with the voltage of DC12V-24V.



1*120W Solar Panel

6-7 hours

fully charged (in full sun)

 Never use higher than DC 24V to recharge this power station.
ONLY use solar panels with compatible voltage.

Safety Precautions When Charging

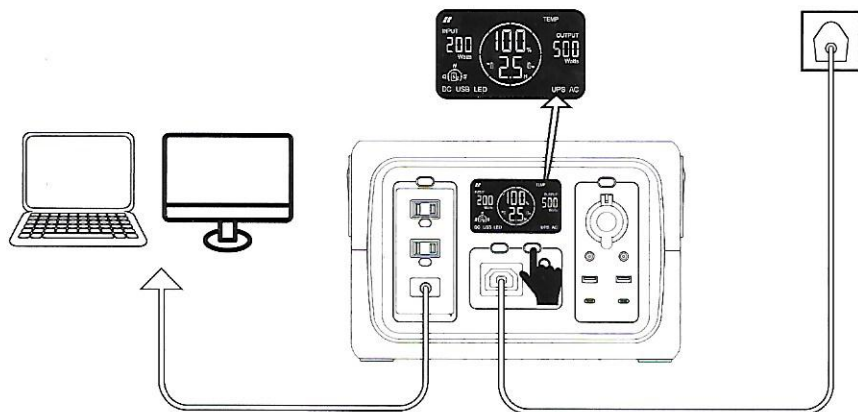
Please don't put the power station in direct sunlight while charging in the high temperature environment.

UPS

UPS Bypass Mode: Connect the power station with the AC power, then turn on the AC output, and the 'UPS' 'AC' will be on display. When on this mode, the AC power will directly support the loads on AC output ports and charge the unit.

Note: Max. output power: 500W.

The AC inverter is disabled under UPS Bypass Mode. The unit won't enter this mode unless connecting with AC power AND turning on the AC output.



Usage

Emergency:

Used as an emergency power supply, the unit is especially suitable for locations that are prone to severe weather patterns and natural disaster related power failures including typhoons, floods, hurricanes, earthquakes, forest fires, snowstorms and low-temperature disaster prone areas.









Outdoor Activities:

Road trips, camping, outdoor celebrations, fishing, climbing, outdoor photography enthusiasts, RC helicopter drone charging, farming and bird watching.

Home Backup:

Home and office electrical device charging, energy-saving lamps, television, mini refrigerators, Christmas decoration lights, printers, laptops, fans and smart mobile phones.

Usage time of devices

 iPhone 90+ Times	 20W Lamp 23 Hrs	 DRONE 15+ Recharge	 60W Laptop 7.6 Hrs
 50W Fan 9 Hrs	 *Mini Cooler 5 Hrs	 CPAP 11.5 Hrs	 32" LCD TV 4 Hrs

NOTES:

- 1.Run time= $512\text{Wh} \times 90\%$ (conversion rate) / Your device's power (Watts).
- 2.Support all electronic devices less than 500 Watts.
- 3.It is recommended to use a DC port instead of an AC outlet to power your CPAP machine.
- 4.*The usage time for refrigeration machines with compressors mainly depends on temperature setting and start frequency of compressors, it's usually lasting longer time than certain reference time.
- 5.The above charging times are calculated as a reference guide only. The actual usage time will depend on the power of the connected devices.