



Portable Power Station

Model: UPS-500AD



User Manual

Please read the manual carefully before you using it

Introduction

UPS-500AD is the lightest, thinnest and highest capacity battery generator which manufactured by advanced lithium battery technology. We provide three output modes, AC wall plug, USB-A adapter, and a direct DC 12V adapter can be used, It is not only an online ups, but also a backup power which can charge portable electronic products. It is applied to various fields such as exploration, scientific and technological research, media photography, outdoors etc.

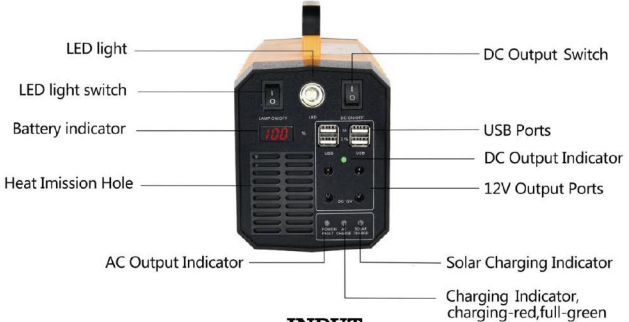
WARNING

- 1.This product has built-in lithium battery, keep it away from fire. Please consult your local regulations as to proper disposal of hazardous waste.
- 2.Make sure the product is protected from moisture and keep it away from water or humid conditions.
- 3.Do not drop, puncture, or damage this product as it may cause the battery to become unstable.
- 4.Stop using the product once it smokes or gets on fire during the working. And put off the fire with extinguisher immediately to an explosion.
- 5.Use the product in good venilation area so that power station won't shut off because of overheating.
- 6.Please switch on the product firstly, and choose DC or AC output, make sure the output indicator light is on, then begin to use the product to supply power.
- 7.Before intial use, fully discharge the battery and fully recharge the battery.
- 8.Charge ups every 3-6 months to extend the battery life if you will not use it for a long time.

Table of Contents

1. Instruction
- 2.AC Power Supply
- 3.DC Power Supply & Lighting
- 4.Solar Charging
- 5.Charging through 12V Car Charger
- 6.Product Parameters Table
- 7.Package Contents
8. Warnings

OUTPUT



INPUT



Notice:

When a wall socket is available, the UPS can be charged even while on standby model. Battery is fully charged when it indicates 12.4V voltage or above, then it can be used for backup power supply of outdoor activities. Make sure to the AC switch is off, and turn it on only when you need to use it. Otherwise it will drain the battery.

2.AC Power Supply

As shown in the figure, plug the AC input power cord into the socket, then connect the end device into the socket of UPS-500AD, turn on the AC output switch, UPS is ready. Only when blackout, the UPS-500AD will automatically switch over to power your equipments by using the built-in lithium battery power. Do not connect any device that 500 watts. The UPS will shutdown and stop working to protect the batteries. Reduce load and restart. The fuse may get snapped when overbacted. Rarely when it occurs, turn off the product, replace an 8A fuse and restart There are two versions of the AC input 100 - 120V / 60HZ. Please purchase according to local voltage and frequency standards.



Indicator

- 1.DC Output indicate: DC port and USB port work status (normal: Green, unusual:Red)
- 2.Power/Fault: indicates AC power supply status(normal: Green, unusual: Red) Battery indicator display low: Red light flash and buzzer ring. Overload: Red light flash, buzzer ring, no power output.
- 3.AC Charge: indicates AC input charging status(During Charging: Red, Fully charged: Green)
4. Solar Charge: Indicate solar input charging and car input charging status (During Charging:Red, Fully charged:Green)
5. Battery indicator: The display panel will show the battery capacity. When the percentage shown low, please charge the unit accordingly.

2.1 AC Power Supply



The product will automatically switch over to power your computer with inside lithium battery when power off. So the computer will be on-line uninterruptedly with UPS-500AD.

Notices:

Don't connect the UPS-500AD to equipment with the load that is over 500W or overload will occur. When there is an overload, it will shutdown. You need to reduce your total equipment load and try again.

In rare cases, when the UPS encounters an external short circuit or unusual power usage, the external fuse will be burned, when this happens you can just replace the fuse. Fuse is 8A.

3.DC Power Supply

For optimal use with CPAP

Worry about no power to charge your CPAP while camping? Don't worry, our portable power station can solve your problem.

There are two ways for LNSLNM power generator to power your CPAP machine: 110V AC Plug or 12V DC Plug.

We strongly recommend CPAP users to turn off or remove the HEATER/ HUMIDIFIER while powering a CPAP machine, so that the power station can power a longer time,

To buy the DC converter, please consult with your CPAP supplier or simply reach us for a guide.



Notice:

When not using the DC power, keep the DC switch off to avoid the power consumption of inside battery.

When using DC output, turn on the DC switch first, the LED indicator will turn on, then the product is ready for DC 5V and 12V output. When not using the DC power, keep the DC switch off to avoid the power consumption of inside battery. LED screen displays battery power. When the battery voltage falls below 9V, the battery is nearly gone. You can turned off the switch, fully charge the product and restart.

3.1 DC Power Supply

Turn on DC ON/OFF switch, the LED light will be turned on, then the product is ready for DC 5V and 12V output, and the 12V DC port is ready to be used. When the battery voltage fails below 9V, the battery is nearly gone, you can turned off the switch, restarting the generator after fully charging .



Notice:

Please confirm whether your DC 12V appliance support charging with 5.5mm DC header interface (the diameter of the DC port of the product is: 5.5mm) otherwise it is unable to connect with the DC output, you can consult the electrical manufacturer to buy the corresponding adapter and connect with it.

The 12V DC output the maximum total current 10A, each DC output maximum current 5A.

4.Solar Charging

This interface is solar charging port. Solar panel should be 18V 2.1A maximum 100W. When connecting with a solar panel, make sure the positive and negative are correct. The product will not be charged under incorrect connection. Solar charging indicator light appears red, and turns green when fully charged.

The product can be used for on-line uninterruptible power system, but also as a backup battery power supply.



Notices:

When connect to the solar panel, please make sure that the polarity must be correct. If not, the solar charging will not work and the LED light will appear RED, Solar charging indicate status (charging: Red, charging completed: Green)

5.Charging through 12V Car Charger

Connect the car charging cable to the SOLAR CHARGE input port and plug the car cigarette lighter into your car socket to charging the UPS. the LED light will appear green when charging completed.



Full charging time: 8 Hours



Notices:

When using the car charger, the LED light may suddenly appear green, that is, the instantaneous voltage result of the UPS battery exceeds 12.4V. At this time, the connection needs to be disconnected and then reconnected.

6.Product Parameters Table

Product Model	UPS-500AD
Output Power	Rated 500W, Peak 580W
Input Voltage	AC 100-220V 50/60Hz
Output Voltage	AC 100-120V 50/60Hz
Battery Capacity	lithium battery 12V/24AH(288Wh)
USB Output	2*5V/2.1A, 2*5V/1A, fit for any mobile, iPad, laptop, or other 5V electronic devices
DC Output	4*12V(9-12.6V) ports, maximum 8A output current
LED Light	1W Ultra Bright LED Flashlight
Solar Charging	18V/2. 1A Max, 40-100W(maximum input power)
Output Wave	Pure Sine Wave
Blackout Response Time	<5MS
Overload	AC output indicator light will turn red and the product will automatically shut off if overloaded. When it occurs, reduce the toad and restart the product.
Short Circuit	The product will autonatically shut off if short circuit. When it occurs, plug off the load and restart the product.
Function	Lithium battery can be used for high power charging and discharging, and this product is built-in with advanced overcharge, over-discharge, short-circuit protection control unit. Meanwhile lithiunn battery is green energy and will not bring pollution to our environment.
Weight/Size	7.5 lb /11.4*5.2*4.3 inch

7.Package Contents



No.	Name	Quantity
1	UPS-500AD Power Station	1
2	AC Charging Cable	1
3	DC Cable (5.5*2.1mm)	1
4	Car Charging Cable(0.6mm)	1
5	User Manual and Thanks Card	1
6	Solar Charger 16-2P Aviation Connector	1

8.Warnings

The UPS can support devices below 500W, so the following devices are not supported.



Electric drill



Rice cooker



Electric kettle



Induction cooker



Hair dryer



Toaster



Coffee machine



Heating equipment



Microwave oven

Customer questions & answers

Q. What appliance this item can supply power?

A. Please ensure that your AC devices total power does not exceed 500W, otherwise the UPS will shut down and stop working to protect the batteries.

Q: Calculate the Working Time for Your Device:

A: Charging time= $288\text{Wh}/\text{Your device power}$, For example Your device Power is 60watt. Then the working time= $288\text{wh}/60\text{w}=4.8$ hrs.(It will be consumed by itself, please turn off the switch when you are not using it.)

Please note: actual power consumption varies from different usages, consult LNSLNM for better purchase decision.

Q: Suggested Related Solar Panel:

A: We suggest you can choose 60-100W solar panel which Optimum Operating Voltage (Vmp) is 18V, because of higher power, charging faster, charging speed is also relating to sun intensity.

Q. How to check if the generator is fully charging?

A. When the LED“%”up to 100%,you also need check if theLED“AC CHARGE”or“Solar Charge”turned to green, then it indicates fully charged.

Q. Why the Led AC CHARGE will be flashed when using AC outlet?

A. When turning on the button AC output ON/OFF to use AC outlet, the LED“POWER/FAULT”turn to green, and the Led AC CHARGE will flash on and off green, this is normal, because our generator has a UPS function, this indicator light flashes to remind that this item hasn't started UPS function, when you plug the AC INPUT to the Wall Charger, the AC charge led will be not flashed.