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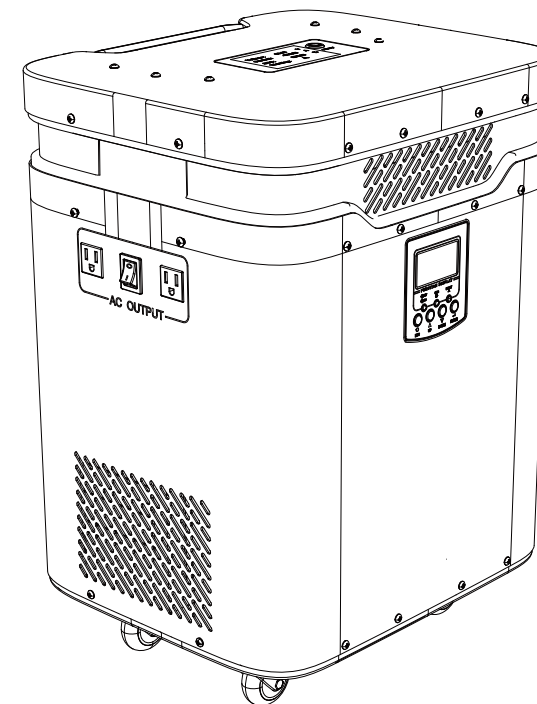
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S3500

Product Usage Manual

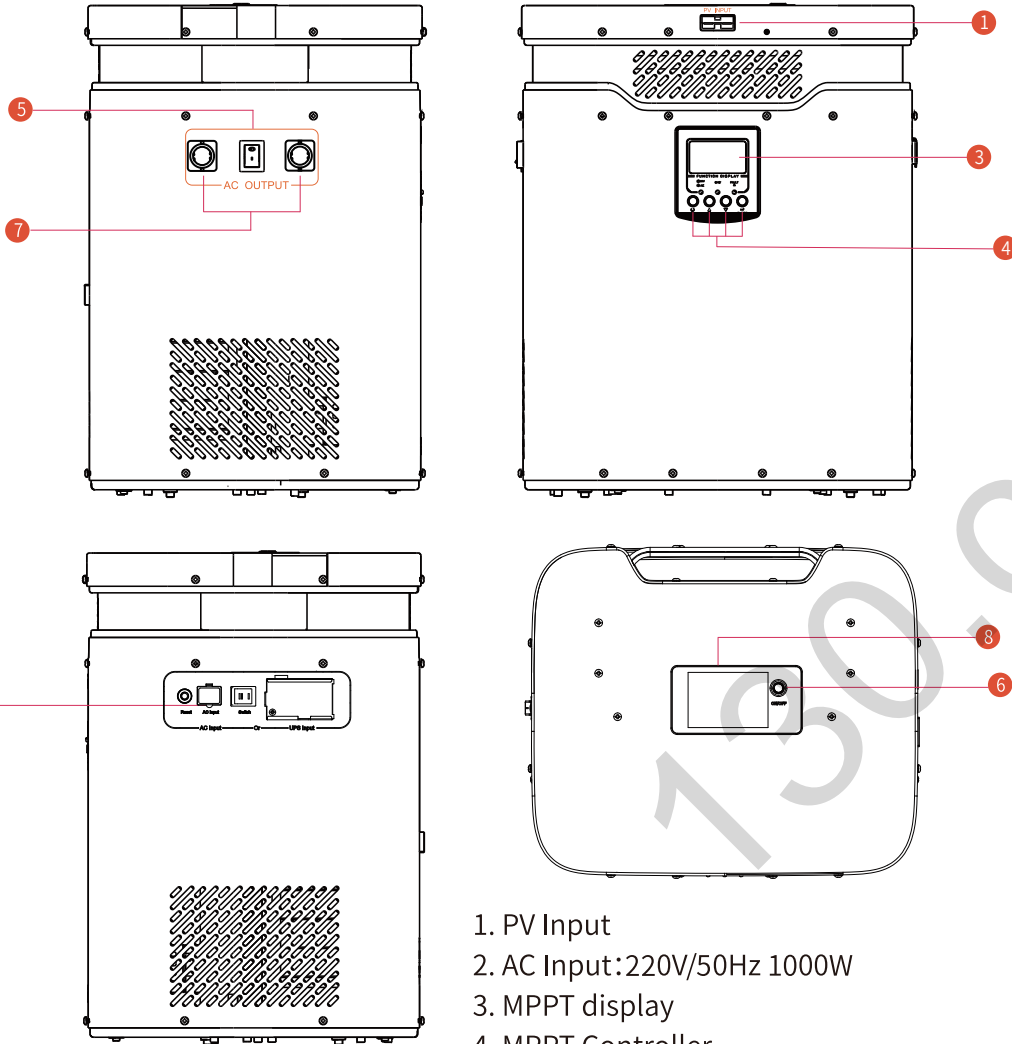
Portable Power Station



Made in China
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The product is a UPS mobile power station, it's a collection of UPS, inverter of AC&DC power, AC and solar power charging, AC inverter output. It adopts microcontroller to manage the power. It features perfect circuit protection, stable performance, high reliability, strong load capacity, a wide range of applications.



1. PV Input
2. AC Input:220V/50Hz 1000W
3. MPPT display
4. MPPT Controller
5. Output Power Switch
6. display button
7. AC Output:220V/50Hz 3500W
8. Working LCD Display

Routine Information

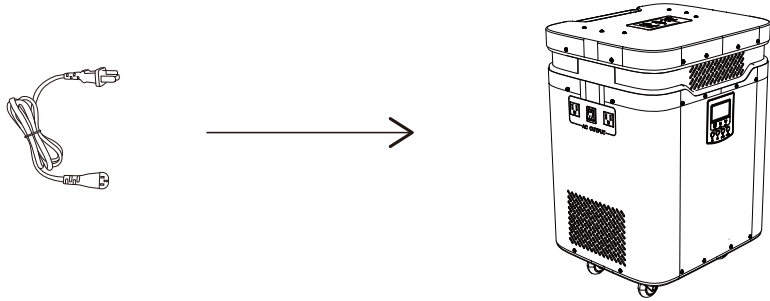
Model		S3500
Size		410x350x575 mm
Weight		52.6KG
Working temperature		-10 -45°C
storage temperature		-20 - 60°C
Warranty		12 months

Technical Specifications

Charging time		3~4h (AC charging)
Battery type		LifePo4
Capacity		3993.6Wh(25.6V/156Ah)
Cycle life		≥2500 times
Fuse		Yes
Management system		Temperature control/Surge protection Pure sine wave/Short circuit protection
Port		
PV	Input	120V-450V 5000W Max
AC	Input	220V/50Hz 1000W
AC1/2	Output	220V/50Hz 3500W

AC cable

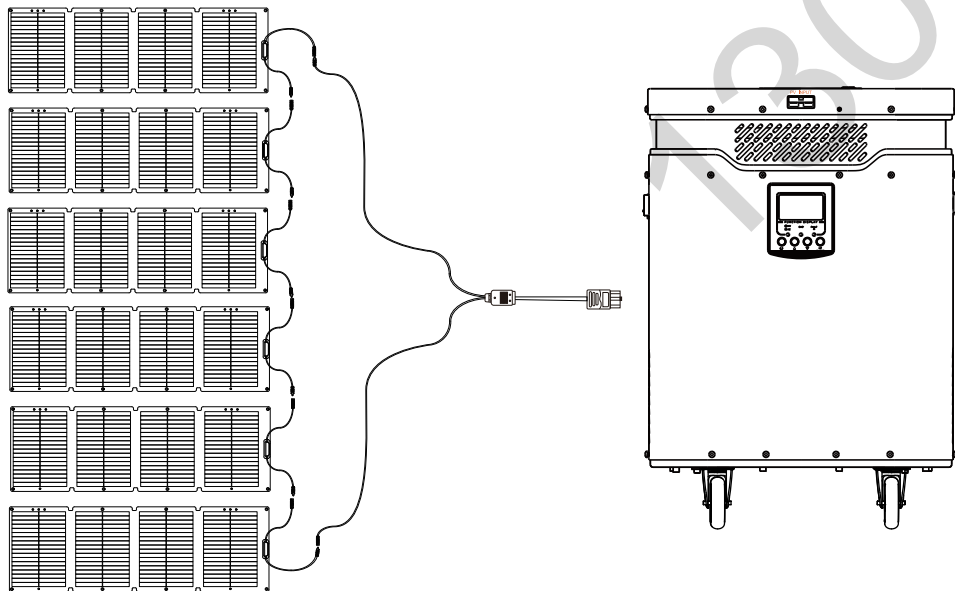
When using or storing the product, if the LCD display is low, please use the AC cable to charge, the LCD screen will display the current charging ratio and charging power; when the LCD display shows that the power is 100%, it means fully charged. This charging process is about 3~4H. Please use the original charger to charge this product.



Solar panel charging (optional)

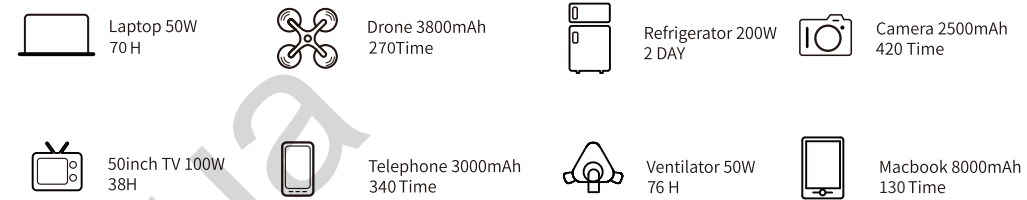
The solar panel can charge the product through the MPPT input port (120-450V, 5000W). If you want to get more solar energy, please place the solar panel in a sunny place and adjust the angle of the solar panel to make the charging power reach the maximum value.

 **WARNING: Shock Hazard**
Due to the high voltage of the series solar panel, care must be taken during installation



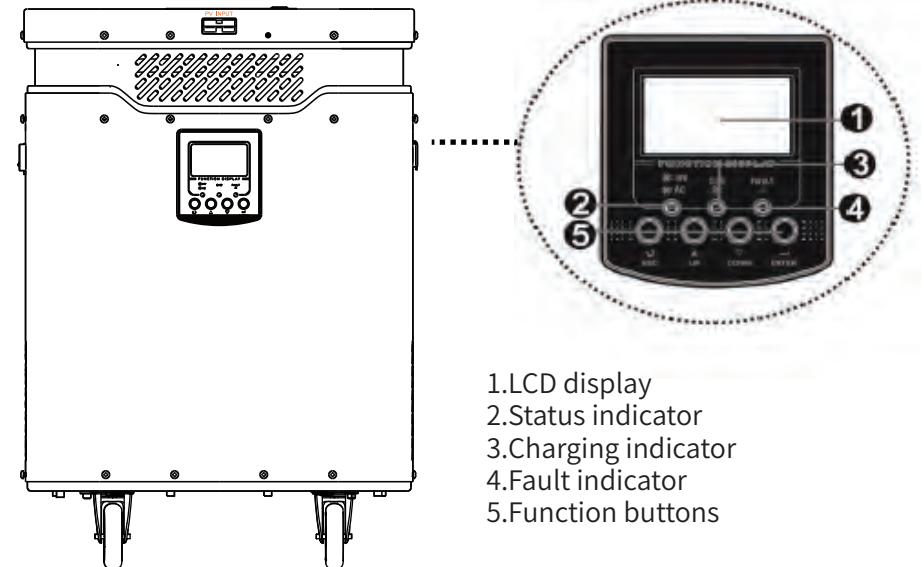
Rechargeable device

AC Power: AC PowNotebooks, Home Appliances, Smartphones, Digital Cameras



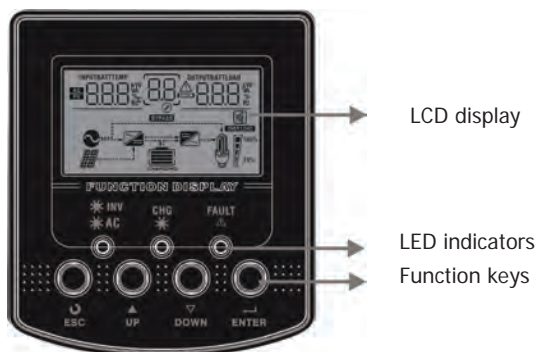
Storage and Downtime Maintenance

When you are not using it, fully charge the product every 3 months and keep it in a cool, dry place .



Operation and Display Panel

The operation and display panel, as shown in the chart below, are on the front panel of the inverter. It includes three indicators, four function keys and an LCD display, indicating the operating status and input/output power information.



LED Indicator

LED Indicator		Messages	
	Green	Solid On	Output is powered by utility in Line mode.
		Flashing	Output is powered by battery or PV in battery mode.
	Green	Solid On	Battery is fully charged.
		Flashing	Battery is charging.
	Red	Solid On	Fault occurs in the inverter.
		Flashing	Warning occurs in the inverter.

Function Keys

Function Key	Description
ESC	To exit setting mode
UP	To go to previous selection
DOWN	To go to next selection
ENTER	To confirm the selection in setting mode or enter setting mode

LCD Display Icons



Icon	Function description	
Input Source Information		
	Indicates the AC input.	
	Indicates the PV input	
	Indicates input voltage, input frequency, PV voltage, battery voltage and charger current.	
Configuration Program and Fault Information		
	Indicates the setting programs.	
	Indicates the warning and fault codes.	
	Warning: flashing with warning code.	
Fault: lighting with fault code		
Output Information		
	Indicate output voltage, output frequency, load percent, load in VA, load in Watt and discharging current.	
Battery Information		
	Indicates battery level by 0-24%, 25-49%, 50-74% and 75-100% in battery mode and charging status in line mode.	
In AC mode, it will present battery charging status.		
Status	Battery voltage	LCD Display
Constant Current mode / Constant Voltage mode	<2V/cell	4 bars will flash in turns.
	2 ~ 2.083V/cell	Bottom bar will be on and the other three bars will flash in turns.
	2.083 ~ 2.167V/cell	Bottom two bars will be on and the other two bars will flash in turns.
	> 2.167 V/cell	Bottom three bars will be on and the top bar will flash.
In floating mode, batteries are fully charged.		4 bars will be on.

In battery mode, it will present battery capacity.

Load Percentage	Battery Voltage	LCD Display
Load >50%	< 1.717V/cell	
	1.717V/cell ~ 1.8V/cell	
	1.8 ~ 1.883V/cell	
	> 1.883 V/cell	
50% > Load > 20%	< 1.817V/cell	
	1.817V/cell ~ 1.9V/cell	
	1.9 ~ 1.983V/cell	
	> 1.983	
Load < 20%	< 1.867V/cell	
	1.867V/cell ~ 1.95V/cell	
	1.95 ~ 2.033V/cell	
	> 2.033	

Load Information

	Indicates overload.			
	Indicates the load level by 0-24%, 25-50%, 50-74% and 75-100%.			
	0%~25%	25%~50%	50%~75%	75%~100%

Mode Operation Information

	Indicates unit connects to the mains.
	Indicates unit connects to the PV panel.
	Indicates load is supplied by utility power.
	Indicates the utility charger circuit is working.
	Indicates the DC/AC inverter circuit is working.

Mute Operation

	Indicates the alarm is disabled.
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Fault Reference Code

Fault Code	Fault Event	Icon on
01	Fan is locked when inverter is off.	
02	Over temperature	
03	Battery voltage is too high	
04	Battery voltage is too low	
05	Output short circuited or over temperature is detected by internal converter components.	
06	Output voltage is too high.	
07	Overload time out	
08	Bus voltage is too high	
09	Bus soft start failed	
11	Main relay failed	
51	Over current or surge	
52	Bus voltage is too low	
53	Inverter soft start failed	
55	Over DC voltage in AC output	
56	Battery connection is open	
57	Current sensor failed	
58	Output voltage is too low	

Warning Indicator

Warning Code	Warning Event	Audible Alarm	Icon flashing
01	Fan is locked when inverter is on.	Beep three times every second	
03	Battery is over-charged	Beep once every second	
04	Low battery	Beep once every second	
07	Overload	Beep once every 0.5 second	
10	Output power derating	Beep twice every 3 seconds	
12	Solar charger stops due to low battery.		
13	Solar charger stops due to high PV voltage.		
14	Solar charger stops due to overload.		

Common problem

What type of battery does the product use?

This product uses a power cylindrical LifePo4 lithium iron phosphate battery.

How can I tell if the product is charged full?

Please refer to the LCD display to check the battery level of the product. By pressing the main switch button to open the LCD display, you can see the battery status. The product supports charging and discharging at the same time, also can be used without a full charge.

Can the product be brought on the plane?

No, because the battery capacity of this product is 3993.6Wh, which exceeds the airline's regulations.

Troubleshooting

If your device does not charge successfully, follow these steps:

1. Make sure the main switch button is turned on and the LCD display is on.
2. Check the LCD power display, if the power is 20% or below, please charge the product.
3. Check if power of the device you use exceeds the maximum power supply of the port of the product.
4. The connection cable of the device you are using is not plugged in properly or is in poor contact.

Attentions



The first charge is important to product battery performance. Please refer to the user guide for more information.

When using this product, you should always follow these precautions, including:

1. Please read all instructions before using this product.
2. To reduce risk, close supervision is required when using this product near children.
3. There is a risk of electric shock when using non-professional products or non-original accessories.
4. When the product is not in use, please turn off the main switch button and pull out the power plug from the product socket.
5. Do not disassemble the product. After disassembling the product, it may cause fire, explosion, injury or uncontrollable accidental risks.
6. Please don't bake it in high temperature or near fire, or expose to sunlight.
7. Please don't put it in water or expose to outdoor rain.
8. Please don't use it in an environment outside the scope of use.
9. When using the inverter, please use officially certified electrical and electronic equipment.

Please keep this user guide properly!

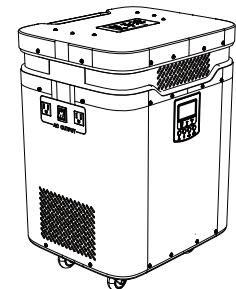
Packing list:

- A. AC cable *1
- B. Power station *1
- C. Usage manual *1

A



B



C

