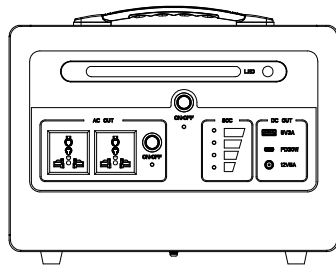


Gospower

# User Manual

All-in-One

GPSP-1K2L1-010A1-MV1



Version 1.0

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# 1. Information on this Manual

## 1.1 Validity

This manual is valid for the following devices: GPSP-1K2L1-010A1-MV1

## 1.2 Label Description

In order to ensure the user's personal safety when using this product, the manual provides relevant identification information and uses appropriate symbols to alert the user, who should carefully read the following list of symbols used in this manual.

	Start maintaining the INVERTER at least 5 minutes after the INVERTER disconnected from all external power supplies.
	This product complies with the essential requirements and other relevant provisions of the applicable European Directives.
	Read instructions carefully before performing any operation on the INVERTER.
	<b>CAUTION:</b> Do not disconnect under load!
	Danger: High Voltage! Danger: Electrical Hazard!

## 1.3 Safety Instructions



### WARNING!

This chapter contains important safety and operating instructions. Read and keep this manual for future reference.

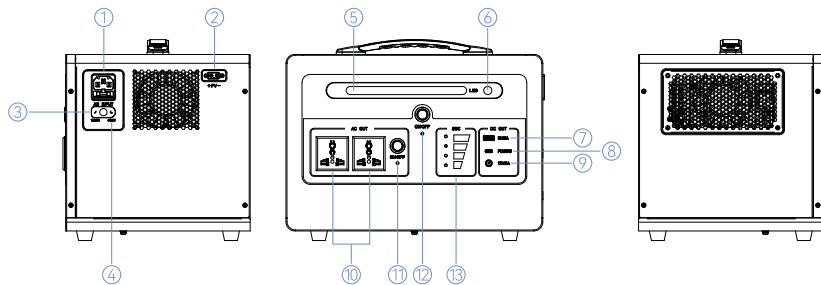
Improper use may cause battery function failure, overheat, even fire or explosion! In order to avoid personal injury and property damage, please strictly comply with the following requirements to store and use product:

01. Please be sure to use the provided charging cable for this product to avoid any accidents.
02. This product is not waterproof. Do not allow it to come into contact with any liquids. Do not immerse this product in water or let it get wet. Do not use this product in the rain or in a humid environment.
03. Do not charge immediately after high-power discharge. To ensure battery longevity and safety, it is recommended to let the battery cool at room temperature for 2-3 hours before charging.
04. It is prohibited to use this product in an environment with strong static electricity or strong magnetic field.
05. When using this product, please strictly follow the operating temperature in this manual.
06. Do not put fingers, hands, or any part of your body into the product.

07. Do not place this product in locations that obstruct its heat dissipation while charging it or charging other devices.
08. It is prohibited to forcibly block the fan during use or leave this product in an unventilated or dusty space.
09. Do not disassemble, impact, crush, or short-circuit this product. Do not submerge it in water or fire (including placing it near stoves, heaters or other heat sources), and do not store it in environments with temperatures above 60°C.
10. If the product accidentally falls into water during use, place it in a safe, dry, open area and stay away from the product until it is completely dry. Do not use the dried product again, and dispose of it according to local laws and regulations. In case of fire, use a fire extinguisher in the following recommended order: sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
11. If this product experiences severe drops, strong vibrations, liquid ingress, swelling, deformation, leakage, or a significant decrease in capacity please stop using it immediately and dispose of it properly.
12. Please dispose of this product, batteries, and other accessories according to local regulations and do not treat them as household waste. Improper handling of batteries may lead to explosion.
13. This product contains a non-removable internal battery. Do not open the product yourself or replace the battery on your own, as this may damage the battery or cause other hazards.

14. Please keep this product out of the reach of children and pets to avoid accidents; to reduce the risk of injury, close supervision is required when using this product near children and pets.
15. Do not use this product with damaged wires, plugs, or output cables.
16. When this product needs repair, please do not disassemble the power supply yourself. Repairs must be carried out by qualified maintenance personnel designated by the product.
17. If the interface of this product is dirty or water-stained, please use a dry cloth to wipe it with the product turned off.
18. Recharge the battery within every 6 months.

## 2. Product Overview



- |                        |                       |                              |
|------------------------|-----------------------|------------------------------|
| ① Grid input           | ② PV input port       | ③ Fast charging              |
| ④ Silent slow charging | ⑤ LED indicator light | ⑥ LED indicator light switch |
| ⑦ USB output port      | ⑧ Type-C output port  | ⑨ 5521 output port           |
| ⑩ AC output socket     | ⑪ AC output switch    | ⑫ Power switch               |
| ⑬ SOC indicator light  |                       |                              |

### 2.1 Operation interface

When the entire machine is in a powered-off state, you can turn it on and activate the corresponding output through any of the following methods:

#### How to turn on and off the AC output?

Two ways to open the AC output:

1. When the device is powered off, first press and hold the [⑫ Power switch] for 1 second and the DC indicator light will turn on. The entire device will then power on. Next, press and hold the [⑪ AC output switch] for 1 second and the AC indicator light will turn on, activating the AC output.
2. When the device is powered on, press and hold the [⑪ AC output switch] and the AC indicator light will turn on, thereby activating the AC output.

#### Turn off AC output:

Long press the [⑪ AC output switch], and when the AC indicator light goes out, the AC output will be turned off.

#### How to turn on and off the DC5521, USBA and USBC outputs?

##### Turn on the Power switch:

When the device is powered off, press and hold the [⑫ Power switch] for 3 second and the DC indicator light will turn on. The entire device will then power on and automatically start the DC output.

Turn off the DC output:

Press and hold the [12 Power switch] for 3 seconds and the DC indicator light goes out, which means the DC output is turned off.

#### How to turn on an LED light?

Please make sure to turn on the Power switch first: Press and hold the [12 Power switch] for 1 seconds.

Simply press the [6 LED indicator light switch] again, and the LED light will be turned on.

#### How to switch the lighting mode?

When the LED light is on, each time you press the [6 LED indicator light switch] briefly, it will switch to a different brightness or mode. The sequence of the cycle is as follows: dim light → low brightness → high brightness → SOS flashing → off.

#### How to turn off an LED light?

Please choose any one of the following methods:

Method 1 (Direct Shutdown): Cut off the Power switch.

Method 2 (Individual Off): Press the [6 LED indicator light switch] briefly until the light turns off.

## 3. Unpacking and Inspection

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. You should have received the following items inside of package:



Product unit x 1



Manual x 1



Power cord x 1



Solar panel  
connection wire x 1



Fuse x 2

## Safety Tips



### DANGER!

- Potential fires and electric shocks that are life threatening.
- Do not place any flammable or explosive materials near the system.
- Equipment connected to high-voltage power generation equipment must be performed by qualified personnel in compliance with national and local standards and regulations.



### NOTE!

- The pollution level applicable to system is Class II.
- Inappropriate or inconsistent installation environment can shorten the life of system.
- Do not install GPSP-1K2L1-010A1-MV1 directly by exposing it under strong sunlight.
- Please do not install in damp places.
- The installation location must be well ventilated.

## 4. Product Specifications

Basic Parameters		
Item	Specification	Comment
Product Model:	GPSP-1K2L1-010A1-MV1	
Max. Charge Current:	50A	
Max. Discharge Current:	75A	
Grid input Frequency:	50Hz	
Grid input Voltage:	230Vac (default) Settable: 176V-264V	APL mode (default)
Max.Grid input Power/Current:	2200W/9.5A	
PV input Power/Current/Voltage:	1000W,15A,12-100Vdc(12Vdc8A)	
DC output:	1*DC5521(12V/5A)	
	1*USBA(5V/3A, 9V/2A, 12V/1.5A)	
	1*USBC(5V/3A, 9V/3A, 12V/2.5A)	

Load output:	230Vac,50Hz,1200W/5.2A	
Charging Temperature Range:	0 ~ +45°C	
Discharging Temperature Range:	0 ~ +45°C	
Storage Temperature Range:	-10 ~ 50°C	
Product net weight:	about 13kg	
Product size:	320*220*228.8mm	

Suggested charging method: The standard charging current is 50A, and the charging voltage is raised to 21.6V. Once the maximum voltage of 21.6V is reached, the charging current drops to the minimum charging current of 1A.

Battery		
Electrical Parameter		
Item	Specification	Comment
Battery Type:	LFR60150	
Nominal Energy:	960Wh	
Nominal Voltage:	19.2V	

Nominal Capacity:	50Ah	
Operating Voltage:	16.8~21.6V	T>0°C
Energy Efficiency:	≥92.0%	
Cycle Life:	≥6000 cycles	The temperature is maintained at 25±2°C, cycle test by the standard charge and discharge method under 300±20Kgf preload, Fading to 70% of standard capacity.
Electrical Parameter		
Charging Temperature Range:	-20 ~ +55°C	
Discharging Temperature Range:	-30 ~ +60°C	
Storage Temperature Range:	-40 ~ +60°C	

## 5. Replace the fuse

When there is an overload of current or a short circuit occurs, the built-in fuse will automatically melt to cut off the circuit, thereby ensuring the safety of electricity usage and preventing accidents.

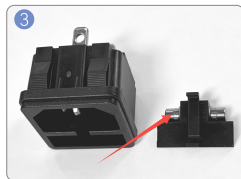
The equipment can only resume normal operation after the fuse is replaced. Please follow the following steps strictly:

**1. Precautions before replacement:** Please ensure that the equipment is completely powered off and all power connections and external loads have been disconnected.

**2. Open the latch:** Use a flat-head screwdriver (or an appropriate tool) to align with the gap of the fuse latch on the AC input terminal housing (refer to the red circle in the illustration), and gently push it outward to open the latch until it pops open, then remove the fuse latch.



**3. Remove the old fuse:** Remove the blown fuse from the inner part of the fuse clip.



Remove the blown fuse

**4. Replace the new fuse:** Take out a new fuse of the same specification from the spare parts, and replace it (if the fuse in the accessory has been used up, please purchase a fuse of the same specification from the after-sales service). Place it smoothly into the slot and ensure proper contact.



**5. Reset the latch:** Align the latch with the slot on the terminal housing, and gently press it until you hear the "click" sound indicating the latch has locked. Confirm that the latch is fully closed (please pay attention to the installation direction to ensure it is correct and in the right position).

**6. Test verification:** After the installation is completed, reconnect the AC power supply for charging. If the device shows normal charging, it indicates a successful operation; if charging fails, please check if the operation is correct and try again.

#### NOTE!



- The replaced fuse must be of the same specification as the original one. It is strictly forbidden to use copper wire or iron wire as a substitute, to avoid the risk of equipment short circuit or overload.
- When prying open the clips, apply force gently to avoid damaging the plastic clips or the connector housing.
- If the charging still doesn't work properly even after multiple replacements, please stop using it and contact the after-sales service personnel for assistance.

## 6. Dust screen cleaning

#### Read before cleaning!



- When cleaning the dust-proof screen, please make sure that the all-in-one machine is in a powered-off state; otherwise, there is a risk of electric shock.
- Do not use volatile oils, alcohol, diluents, or paints to clean the dust cover. Otherwise, it may damage the dust cover.

#### Step 1: Remove the dust cover net

Remove 4 fixing screws and take out the dust cover.  
(As shown in the picture)

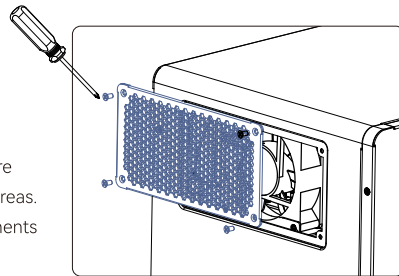
#### Step 2: Cleaning dust cover net

Please immerse a soft cloth in water at a temperature below 45°C, wring it out, and gently wipe the dirty areas. The all-in-one machine has microcomputer components and circuit boards, and must never be exposed to moisture or water.

If the dust cover is very dirty (such as with oil stains), it can be cleaned by washing it with warm water (below 45°C) that contains neutral detergent, and then left to dry in a cool place.

#### Step 3: Install the dust cover net

After cleaning, install the dust cover back to its original position and secure it with screws.



## 7. System Maintenance

### 7.1 Transportation

Lithium batteries are dangerous goods. Passed the test of UN38.3, this product meets the transportation requirements for dangerous goods for lithium batteries. For a period of time after starting to use the equipment, the original packaging (including the lithium battery label) should be retained. When the unit needs to be returned to the factory for repair, please pack the unit with the original packaging to reduce unnecessary trouble.

### 7.2 Storage

After purchasing the product, please store it according to the following instructions.

- 1) Please store in a dry and well-ventilated environment, avoiding heat source.
- 2) Please keep it in an environment with storage temperature as  $-10\text{ }^{\circ}\text{C} \sim 45\text{ }^{\circ}\text{C}$ , humidity  $<90\%$  RH. (no condensation).
- 3) For long-term storage ( $>3$  months), please put it in an environment with a temperature of  $18\text{ }^{\circ}\text{C}$  to  $28\text{ }^{\circ}\text{C}$  and a humidity of  $<90\%$  RH (no condensation).
- 4) The battery should be charged once every six months.



#### NOTE!

- The battery remains 50% power when it is sent from the factory.
- The longer the battery is stored, the DOD value is getting bigger. When the battery remaining voltage fails to reach the startup voltage requirement, the battery may be damaged.

The battery cannot be disposed of as household refuse. When the service life of the battery reaches to the limit, it is not required to return it to the dealer, but it must be recycled to the special waste lithium.

