



SOLARVILLE

Operating Instruction of Portable Power Station

VXL1000

Please read carefully this instruction before operation!

Thank you for purchasing our products!

Before using this equipment, please read the warranty
service in the warranty card first

If it does not meet, please contact our company as soon
as possible to protect your rights.

Contents

1.Product Introduction.....	1
2.Button Instructions.....	2
3.Operation Instructions	3
4.Solar Panel Connection	4
5.Technical Parameters.....	5
6.Application Areas	6
7.Troubleshooting.....	7
8.Maintenance.....	8
9.Transportation & Storage.....	9
10.Product Warranty and Repair.....	10

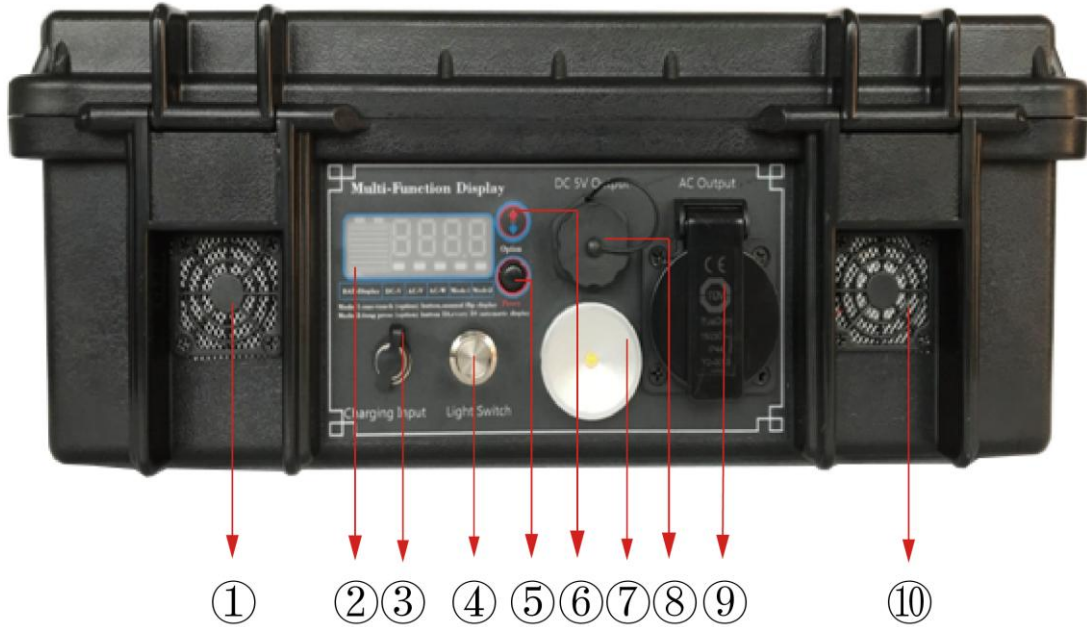
1. Product Introduction

VXL series portable power station is built by our company after many years of professional accumulation based on extensive user's feedback. The new design adopts imported lithium battery as the energy storage main body. It has the features of small size, large capacity, light weight, high power, easy to carry and so on, providing you the simple solution of mobile power supply. It is widely used in outdoor office, medical rescue, fire protection Rescue, field recreation, emergency communications, and environmental monitoring.

- Intelligent Fully-Automatic Dynamic Charge and Discharge Management Platform
- Multi-function display, showing battery voltage and battery power, voltage output and power output
- Small size, large capacity, light weight, easy to carry
- SPWM pulse width modulation sine wave ,high precision low ripple voltage output
- Pure Sine Wave AC 110/220V voltage output, Can supply power to most electrical equipments
- Built in high capacity, long life, high efficiency lithium-ion battery
- Can output AC (110V/220V) and DC (DC5V) at the same time
- With Overcharge and over-discharge protection, power monitoring and low battery warning function.
- With short circuit, overload, over temperature and other protection functions, it is safe and reliable. There is a security warning and sign and cautions.

2.Button Instructions

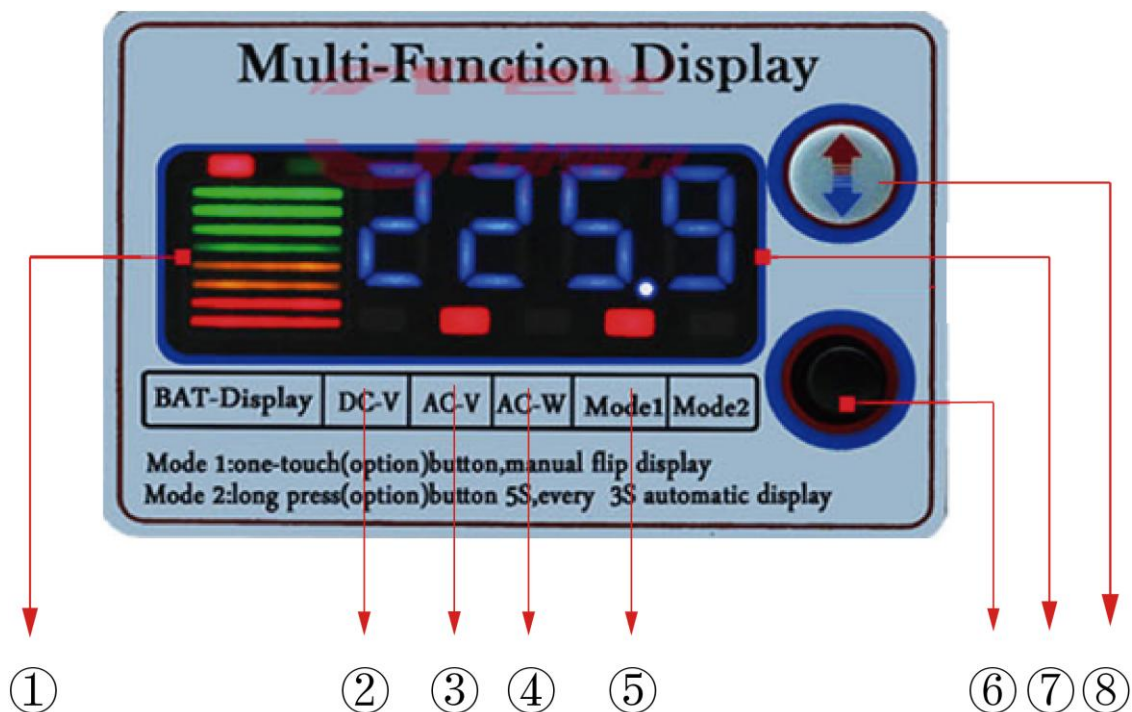
2.1 VXL1000 Button Instructions



- ① Cooling Fan
- ② Display Screen
- ③ Charging Input
- ④ Power Switch
- ⑤ Lighting Switch
- ⑥ Mode Switch Selection
- ⑦ LED Light
- ⑧ DC5V Output
- ⑨ AC Output
- ⑩ Cooling Fan



2.2 Multi-Function Display Instruction



① Battery Allowance Column

② Battery Voltage

③ AC Voltage Output

④ AC Power Output

⑤ Mode 1

⑥ Power Switch

⑦ Mode Selection Switch

⑧ Multi-Function Display

3. Operation Instruction

3.1 Operation Step

①: Check the power of load, ensure that the rated power of load is not exceed the rated power of this portable power station. If it is higher, please use a higher output power portable power station.

②: Press “Power” button to start the portable power station, after AC output voltage is stabilized, then plug into a load on it. (it is very important)

③: The multi-function display can indicate battery voltage, battery level, AC output voltage and load output power.

④: After use it, please take off the load and turn off the “Power” button after the fans stop to turn.

3.2 Operation Cautions

- During use, when the battery voltage is too low/temperature is too high/the load is too large, the buzzer will alarm, and stop the output. That's remind the user to recharge/cooling/unload timely.

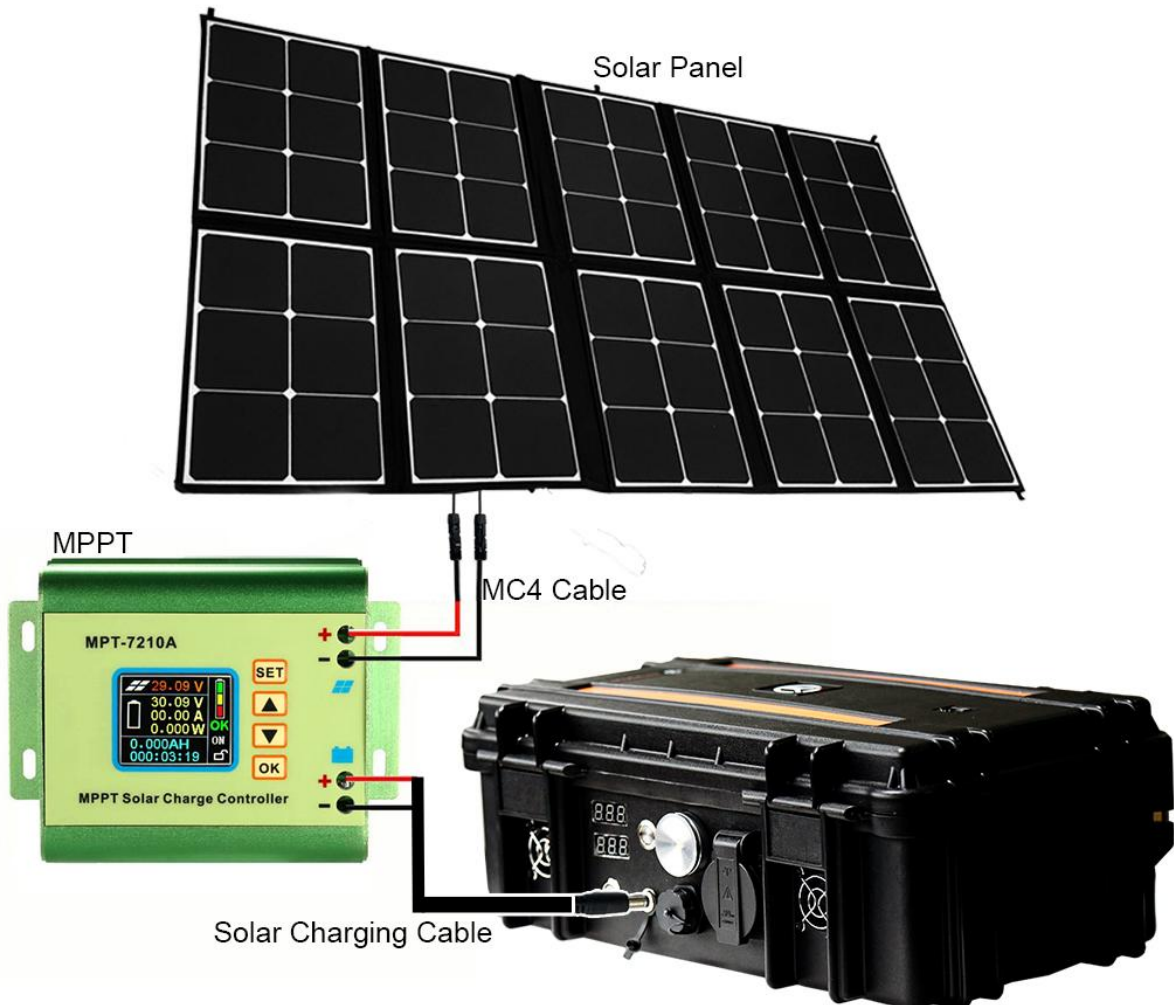
- When the voltage of the battery is below 23V, the load should be reduced to less than 1/3 of the rated load to prevent the battery from being discharged too quickly and to protect the power station.

4.Solar Panel Connection(Sold Seperately)

This portable power station also can be charged by solar panels,if charge by solar panel,it include: solar panel,MPPT controller,MC4 cable,solar charging cable.

Below is the connection picture:

Note:We suggest using 200W solar panel to charge this power station,MC4 cable can change to other kind of connector such as Anderson.



5. Technical Parameters

5.1 VXL1000 Technical Parameters

Model No	VXL1000
Battery Type	Lithium Battery
AC Current Output	3.6A/6.4A
AC Voltage Output	220V/110V
Power Output	800W/700W
Peak Power	1600W/1400W
Waveform Output	Pure Sine Wave
Frequency	50Hz/60Hz
DC Voltage Output	DC 5V/2A
Protection functions	Over Charge,Over discharge,Over load,Over Temperature,Short circuit,Under Voltage etc.
Charging parameters	29.4V/5A
Battery capacity	24V/40Ah
Charging time	8h
Cycle life	>3000 times
Appearance size	413*260*156 (mm)
Weight	8.5Kg

5.2 Reference Load Time

Equipment	Power(W)	Usage Time(h)
		VXL1000
LED Light	5	200
LCD TV	30	30
Laptop	45	20
Household fans	75	12
Audio	150	6
Refrigerator	150	6
Desktop computer	200	5
Washing machine	300	3
Vacuum cleaner	500	2
Air Conditioning (1P)	800	1
Microwave oven	1200	/
Electric kettle	1500	/
Electric heating	2000	/
Electric water heater	2200	/

Note: The above load test usage time is for reference only. The actual usage time will vary depending on the brand of the load product.



6.Application Area

Multi-functional portable AC&DC power station can be applied for Medicaid, emergency communication, environment monitoring, firefighting , army field practice, outdoor work, household power outage as well as remote rural without electricity , advertising media for outdoor shooting,

Except for above this normal application , it also can be used in tasks and administration, such as installation and maintenance of telecom network optimization , the army information technology company, the geographical survey task force, miners oil exploration team, architectural survey, water detection , investigation on wild resources of forestry agriculture etc .

7.Troubleshooting

- ①No AC Output: Check multi-function LCD screen displays or not. If not, please charge the battery for 1 – 2mins to activate the battery.
- ②No DC Output: Turn on POWER switch.
- ③Long time alarm: Overheat or low battery level will lead to long time alarm. If the temperature is too high, please stop using the power station and let it cool down before using .If battery voltage is too low, please recharge the power station timely.

- ④ Lamp not lighting: Turn on the power switch again and then switch on the light.
- ⑤ No display on the screen when power on: The battery voltage is too low and is under the protection. Please turn off the “POWER” button, and then plug in the charger. Please use the battery when it is fully charged.

8. Maintenance

A) Daily operation and maintenance

- Follow this Manuel strictly in a well-ventilated environment when operate this products.
- Avoid operating this product in a environment where there are volatile combustible liquids, corrosive liquids, conductive fiber dust.
- Avoid exposure to rain and direct sunlight.
- To ensure heat dissipation, please make sure at least 5 cm space around for smooth airflow.
- Please clean this product regularly to avoid the dust on the surface.
- Please do not place the heavy things or liquid containers on the top of this products.
- Do not turn off this product immediately after use when the fans are still running. Please turn off this product when the fans are not running any more.

- People who is not professional should not be allowed to use this product to avoid any inquiry or damage.

B) Maintenance for long term shutdown.

- If this product is placed in a humid environment for a long time, it should be placed in a dry and ventilated place to remove moisture before use.
- Please recharge this product every 3 months if long time no use.
- Power recharging: Please recharge this product under no load. You do not have to do anything when recharging.

9. Transportation and Storage

- Upside down is Forbidden when transported and storage
- The storage place should be free of flammable, explosive, toxic and other chemicals or corrosive gases, without strong mechanical vibration and shock and avoid the strong electromagnetic field effects and sunlight exposure.

- Condition to storage

Temperature for recharging: 0°C ~ 65°C

Working temperature: -20°C ~ 65°C

Humid: 0%-90%

10. Warranty & Contact

10.1 Warranty

- This products is guaranteed for one year from the date of sale.
- For product warranty service or repair, the product should be returned to our company or the maintenance unit authorized by our company.

10.2 Limited Warranty

The guarantee mentioned above will not apply to the damage caused by the follows:

- The customer do not operate the product correctly according to Manuel.
- Unauthorized unpacking or modification.
- The product model or serial number has been changed, deleted or unrecognizable.
- Damage originates from accidents, including but not limited to lightning strikes, water ingress, fire, etc.