



1008Wh Portable Power Station User Manual

LFP Portable 1000



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About this Document

This document describes the operation of 1008Wh Portable Power Station (hereafter simply put LFP Portable 1000). Before use LFP Portable 1000, ensure that you are familiar with product features, functions, and safety precautions provided in this document.

1 Product Information

1.1 Battery Overview

The 1008Wh portable power station from LYBESS is designed as a complete unit. It uses high quality EV-grade LiFePO4 (LFP) batteries with a cycle life of ≥ 2000 cycles, while using a high precision BMS system to protect the batteries in all aspects, for the safety of battery use.

Features

- Premium EV-grade LiFePO4 (LFP) battery
- 800W AC Super Charge
- 10W Wireless Charge
- 3000W Surge power
- DC Adaptor Charge: 120W, 12V, 10A(Max)
- Versatile Output Ports

1.2 Appearance



1.3 Front Panel



(1) Wireless Charge

(2) WiFi

(3) 12V/10A DC Output Port*2

(4) 5A USB-TypeC Output Port*2

(5) 82*48mm Display Screen

(6) 5V/2.5A USB-A Output Port

(7) 3W LED Light

(8) 2.4A Quick charge Port*2




2 Safety Information

2.1 General Safety

Please carefully read the manual safety precautions, and observe all the safety instructions on the equipment and in this document.

The "DANGER" , "WARNING", and "NOTICE" statements in this document do not cover all the safety instructions. They are only supplements to the safety instructions.

For user safety and utilization efficiency of this manual, a list of symbols are designed to alert people from danger. You must understand and comply with the emphasized information to avoid personal injury and property damage. Relative safety symbols have been listed below.

 Danger	DANGER indicates a hazardous situation which, if not avoided will result in serious injury and fire.
 Warning	WARNING indicates a hazardous situation which, if not avoided will result in property loss or void warranty.
 Notice	NOTICE indicates normal situation which, if not avoided will result in that battery doesn't work.

Follow local laws and regulations when operating, or maintaining the equipment. The safety instructions in this document are only supplements to local laws and regulations.

2.2 Personal Safety

Personal Requirements

People who plan to maintain battery equipment must be trained, understood all necessary safety precautions, and are able to perform all operations correctly. Only qualified professionals or trained people are allowed to operate and maintain the equipment.

Personal Safety



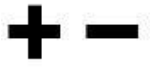





- Do not place battery at a children or pet touchable area.
- Do not touch the energized battery, as the enclosure is hot.
- Do not touch the energized battery terminals.
- Do not stand on, lean on, or sit on the battery.

2.3 Electrical Safety

Symbols on Battery

There are some electrical symbols on battery relate to electrical safety. Please make sure you have fully understand them before installation.

	Electrical danger	Voltage exits when the battery is powered on. Only qualified engineers are allowed to operate.
	Earth connector	Earth connection.
	DC positive and negative connectors	Identify positive and negative connectors of DC power source.
	CE mark	The product meets CE certification.
	WEEE tag	Can't leave battery as garbage disposal.
	Recycle	Battery can be recycled.

2.3 Electrical Safety

Electrical Safety



- Before use, ensure that the equipment is intact. Otherwise, electric shocks or fire may occur.
- Do not connect or disconnect power cables when battery is power-on. Which may cause electric arcs and sparks more overfire or personal injury. Before connecting a power cable, check the positive or negative connectors are correct.
- Do not connect battery to faulty or unqualified charger.
- Do not create short circuits with the external connection.
- Make sure the grid is cut off and the battery is powered off before maintenance.



- Recharge battery in every six months.
- Recharge battery within 10 days after battery is fully discharged.
- When the battery is being use or repaired, make sure the battery is powered off and using a multimeter to make sure there is no voltage in the positive and negative terminals.



- Please use dedicated insulated tools for maintenance.
- Please check lights on sequence when battery power-on.

Environment Safety



- The use position must be away from fire sources and direct sun and rain.
- The use position must be far away from water sources such as taps, sewer pipes, and sprinklers to prevent water seepage.
- Do not expose the equipment to flammable or explosive gas or smoke.
- The operation and service life of the battery depends on the operating temperature. The recommended operating temperature range is from 0°C to 30°C.

2.4 Transportation Safety



- The products passed certification UN38.3.
- The products have MSDS.
- The products belong to class 9 dangerous goods.
- Please protect the packing case from the below situations.
- Being dampened by rains, snows, or falling into water.
- Falling or mechanical impact.
- Being upside-down or tilted.

3 Attentions

- Before using the battery pack, please read the manual carefully to understand the usage and precautions;
- Non-professionals shall not disassemble the battery without authorization;
- Be sure to use the original special charger for charging or the charger agreed by both parties;
- During use or storage, if you find abnormal heating, discoloration, deformation or other abnormalities in the battery, please stop using the battery;
- The storage temperature of the battery is -10~35°C, please place the battery in a dry and cool environment
- Do not bump, apply external force or make the battery fall from high altitude during use;
- If the battery is not used for a long time, the battery pack needs to be charged to more than 80%, turn off the power switch, and store it in a ventilated and dry environment.

4 Specifications

Specifications		LFP Portable 1000	
		110Vac	220Vac
Battery Input	Nominal Voltage	22.5V	
	Voltage Range	18.2~26V	
	Battery Capacity	1008	
	Nominal Charging Current	36A	
	Nominal Discharging Current	45A	
	Max Discharging Current	45A	
	Life Cycles	> 2000(25°C 1C discharge)	
	AC Input	AC Charging Power	800W
Nominal Voltage		110Vac	220Vac
Voltage Range		90~140V	180~260V
Nominal Frequency		60Hz	50Hz
Frequency Range		55~65Hz	45~55Hz
Power Factor		>0.99(Max. charging power)	
DC Input		Max Car Charging Input Power	120W
	Max Solar Charging Input Power	200W	
	DC Input Voltage Range	10~30V	
	Max DC/PV Input Current	10A	
AC Output	Nominal AC Power	1000W	
	Surge Power	3000W	
	Nominal Grid Voltage	110Vac	220Vac
	Nominal Grid Frequency	60Hz	50Hz
	Max.AC Current	27A	13.5A
	Nominal AC Current	9A	4.5A
	THDv at Nominal Power	<1.5%	

Specifications		LFP Portable 1000	
		110Vac	220Vac
DC Output	USB-A (x1)	12.5W, 5V, 2.5A	
	QC3.0 (x2)	28W each, (5V, 9V, 12V), 2.4A	
	USB-TypeC (x2)	100W each, (5V, 9V, 12V, 20V), 5A	
	Car Port and DC Port Totally Max Output Power	120W	
	Car Port (x1)	120W, 12V, 10A	
	DC Port (x2)	120W, 12V, 10A	
	Other Features	LED Light	3W
LCD		82mm*48mm	
Wireless Charger		10W	
Parallel Output		Optional	
Efficiency	Battery to AC Max	92.5%	93%
	AC to Battery Max	92%	
	Protection	AC output over current; AC output short circuit; AC charging over current; AC output over/under voltage; AC output over/under frequency; nverter over temperature; AC charging over/under voltage; Battery temperature high/low; Battery over/under voltage;	
General Data	Dimensions(W*H*D)	340*272*198mm	
	Weight	10.8Kg	
	Cooling Concept	Forced air cooling	
	Operation temperature range	0~45°C(Charging), -20~60°C(Discharging)	
	Operation relative humidity	0-95% Non Condensation	
	Ingress Protection	IP20	
	Noise	<65dB	
	Communication Interface	WiFi	