



PRODUCT PARAMETER INTRODUCTION

— 2023 —

Product Concept

0

Safety Accident

Safety

< 1‰

Hardware Failure Rate

Stability

> 99%

New Energy System

Compatibility





Household Energy Storage Battery

Ensuring electricity for homes has become one of LYBESS's missions. Our Wall series and Ground-HV series adopt the world's TOP grade LiFePO4 phosphate batteries, which have passed IEC62619/UL1973 certification. The finished product have passed CE/UN38.3/MSDS and other safety certifications.

LFP Wall Series

1. Reduce floor space, wall-mounted installation .
2. LFP cells are safer and have longer service life.
3. Support each inverter to support 1-8 battery packs in parallel.
4. Good compatibility, standard communication protocol, CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market.
5. High protection measures, built-in Aerosol active fire protection module, thermal runaway detection and active fire protection.



LFP Wall-2500



LFP Wall-5000



LFP Wall-10K

Specifications	LFP Wall-2500	LFP Wall-5000	LFP Wall-10K
Battery Type	LFP		
Nominal Voltage	51.2V		
Nominal Capacity	50Ah	100Ah	200Ah
Shell Material	SPCC		
Weight	31kg (68lb)	48.5kg (107lb)	96kg (212lb)
L*W*H (inch)	21*14*7.7	21*18*7	31*23*7.7
L*W*H (mm)	538*365*196	538*464*180	790*586*196
Max. Discharge Current	25A	50A	100A
Max. Charge Current	25A	50A	100A
Max. Output Power	1280W	2560W	5120W
Protection	IP65		
Cycle Life	>6000 (@0.2C 85%DOD >80%SOH)		
Communication	CAN / RS485		
Support Parallel	Yes, 1-8 Parallel		
Voltage Range	45V~58.4V		
Charge Temp Range	0~55°C / 32~131°F		
Discharge Temp Range	-10~55°C / 14~131°F		
Heating Function	Optional		
Compliance Standards	Cells(UL1973) / Pack(CE/UN38.3/IEC62619)		



LFP Ground-HV Series

1. A complete energy storage system is composed of a PDU, n battery packs (48V52Ah/Pack) and a base, easy extend to 10kWh / 12.5kWh / 15kWh / 17.5kWh / 20kWh.
2. Good compatibility, standard communication protocol, CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market.
3. Quick installation design, plug and play assembly, no more cables between packs, saves manual installation costs.
4. High protection measures, built-in Aerosol active fire protection module, thermal runaway detection and active fire protection.

LFP Ground	HV 10K	HV12.5K	HV 15K	HV17.5K	HV20K
Nominal Voltage	192V	240V	288V	336V	384V
Nominal Capacity	52Ah				
Max. Discharge Current	50A				
Max. Charge Current	50A				
Max. Output Power	9.6kW	12kW	14.4kW	16.8kW	19.2kW
Protection	IP65				
Cycle Life	>6000 (@0.2C 85%DOD >80%SOH)				
Communication	CAN / RS485				
Voltage Range	168V~219V	210V~273.75V	252V~328.5V	294V~383.25V	336V~438V
Charge Temp Range	0~55°C / 32~131°F				
Discharge Temp Range	-10~55°C / 14~131°F				
Heating Function	Optional				
Compliance Standards	Cells(UL1973) / Pack(CE/UN38.3/IEC62619)				



LFP Ground-HV 10K



LFP Ground-HV 12.5K



LFP Ground-HV 15K



LFP Ground-HV 17.5K



LFP Ground-HV 20K



Rack Energy Storage Battery

Specifications	19 " Parallel Version
Nominal Voltage	51.2V
Nominal Capacity	102Ah
Shell Material	SPCC
Weight	52kg (115lb)
Size	19"3U/5U (Optional Length)
Max. Discharge Current	100A
Max. Charge Current	50A
Max. Output Power	5120W
Protection	IP21
Cycle Life	>6000 (@0.2C 85%DOD >80%SOH)
Communication	CAN / RS485
Support Parallel	Yes (1-16)
Voltage Range	45V~58.4V
Charge Temp Range	0~55°C / 32~131°F
Discharge Temp Range	-10~55°C / 14~131°F
Heating Function	Optional
Compliance Standards	Cells(UL1973/IEC62619) / Pack(CE/UN38.3)

■ 19 " Parallel Version

1. 19" chassis, optional height 3U/5U. Support size customization.
2. LFP cells are safer and have longer service life.
3. Support each inverter to support 1-16 battery packs in parallel.
4. Good compatibility, standard communication protocol, CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market.
5. High protection measures, built-in Aerosol active fire protection module, thermal runaway detection and active fire protection.



P51.2V100Ah-3U



P51.2V100Ah-5U



■ 19 " Series Version

1. 19" chassis, optional height 3U/5U. Support size customization.
2. LFP cells are safer and have longer service life.
3. Support each inverter to support 1-13 battery packs in series.
4. Good compatibility, standard communication protocol, CAN and RS485, compatible with most popular hybrid and off-grid inverters in the market.
5. High protection measures, built-in Aerosol active fire protection module, thermal runaway detection and active fire protection.



S51.2V100Ah-3U



S51.2V100Ah-5U

Specifications	19 " Series Version
Nominal Voltage	51.2V
Nominal Capacity	102Ah
Shell Material	SPCC
Weight	52kg (115lb)
Size	19"3U/5U (Optional Length)
Max. Discharge Current	100A
Max. Charge Current	50A
Max. Output Power	5120W
Protection	IP21
Cycle Life	>6000 (@0.2C 85%DOD >80%SOH)
Communication	CAN / RS485
Support Series	Yes (1-13)
Voltage Range	45V~58.4V
Charge Temp Range	0~55°C / 32~131°F
Discharge Temp Range	-10~55°C / 14~131°F
Heating Function	Optional
Compliance Standards	Cells(UL1973/IEC62619) / Pack(CE/UN38.3)

Reminder: The series version needs to be matched with LYBESS's high-voltage control box.





Lead to lithium battery

At present, the size and appearance of almost all products in the market that replace 6/12V lead-acid batteries are inherited from the design of lead-acid batteries. It is difficult to directly compare the differences of similar products, resulting in fierce competition of product homogeneity.

■ Magi-C

Magi-C is a revolutionary product which can replace most lead-acid battery in many usage scenarios. Not only has the aesthetic surface, but also adopted with precise mold which can meet IP67, its internal structure fully considers the durability and safety. Magi-C has abundant expansibility. Customers also can add other functions like bluetooth and heating. It looks like an elegant magic cube.



Magi-C	Nominal Voltage	Nominal Capacity	Shell Material	Weight	Size	Max. Discharge Current	Max. Charge Current	Protection	Cycle Life	COM
50Ah	12.8V	50A	ABS+PC	6kg(13lb)	245*213*175mm	50A(1C)	25A(0.5C)	IP67	>4000	No/
100Ah		100A		10kg(22lb)	9.6*8.4*6.9in	100A(1C)	50A(0.5C)			Bluetooth

Magi-C	Series-Parallel	Voltage Range	High Temperature Cut-Off	Low Temperature Disconnect	Heating Function	Compliance Standards
50Ah	Yes 4*4	10V~14.6V	60°C/140°F	-10°C/14°F	Optional	Cells(UL1973/IEC62619) / Pack(CE/UN38.3)
100Ah						



Portable Power battery

Portable mobile power has been integrated into all aspects of people's life. It provides electricity security in all aspects of travel, emergency and tourism. However, uneven product quality brings bad user experience to consumers. The mission of the LFP Portable-1000 is to improve cost performance and provide stable quality.

■ LFP Portable-1000

1. LFP cells are safer and have longer service life.
2. Built-in bi-directional inverter. Real fast charge portable Power.
3. Switchover time within 10ms.
4. MPPT efficiency over 99.99%
5. Sin wave AC output, THD rate of AC output less than 1.5%.
6. Versatile output, 11 output ports in 6 types, including wireless charge power 11 devices simultaneously.
7. Only 5mA in sleep mode, can last for 1 year.



Specifications	LFP Portable-1000
Battery Type	LFP
Nominal Capacity	1008Wh
Life Cycles	>2000(@25°C, 1C discharge)
Weight	10.8kg(23.8lb)
Size	340*272*198 mm / (13.3*10.7*7.7 in)
Output	AC(*2):1000W total(Surge 2000W)
	AC 110V/120V @60Hz/230V @ 50Hz
	DC Port*2/Carport*1(DC 13,5V10A,total 120W)
	USB-A*1:DC 5V,2,5A,12.5W
	USB-TypeC*2:5/9/12V,5A,100W Each
	QC3.0*2:DC 5/9/12V,2.4A,28W Each
	Wireless Charger:10W
Input	AC Charger: 800W Maxi Super Charge
	DC Adaptor Charge: 120W,12V,10A(Max)
	Solar Charge: Max 200W,10A,VOC 30V
Charge Temp Range	0-45°C / 32°F~133°F
Discharge Temp Range	-20°C~60°C /-4°F~140°F
Operation relative humidity	RH 0%~85%, Non condensation
Compliance Standards	CANS/PSE/FCC/CE//UN38.3/MSDS





Industrial Energy Storage Battery

Under the background of global energy supply keeping continuous tight, enterprises, laboratories and other places that require stable power supply need energy storage system to ensure the temperature of power. LYBESS industrial energy storage can be a reliable choice.

■ LFP-10/30/60/120kW

1. The integrated cabinet design of on-grid and off-grid.
2. It includes: MPPT, PCS, PDU, batteries, Cables, fire protection, air conditioning, cabinet.
3. PV DC networking, improve PV power generation efficiency by 5-8%.
4. Cabinet level and PACK level fire protection, system thermal out of control detection and active fire protection.
5. Cabinet thermal insulation and hot and cold air conditioning thermal management, stable operation -20°C to 50°C.
6. Support Peak-shaving, self-generation and self-consumption, integrated with off-grid, pure off-grid.
7. C4 grade anti-corrosion, IP65 protection, outdoor and indoor installation.
8. Support OTA, remote online monitoring and maintenance.



LFP-10kW Series



LFP-30kW Series



LFP-60kW Series



LFP-120kW Series



Inverter/PCS Adaptation



It is a concern of many dealers that whether the inverter is compatible with batteries. To solve this problem, LYBESS has done the adaptation of mainstream brands and models of inverters for the whole series of products. Therefore, customers only need to tell us the brand and model of the inverter they want to be adapted, then we will do the adaptation test before delivery. There will be no adaptation problems when you receive the product.



Other accessories

- Use of chargers

Statistics show that safety accidents caused by charging accounted for the highest proportion of all safety accidents caused by lithium batteries. Therefore, Please clarify the parameter information of the charger to ensure the safety of battery charging. You can consult our sales if you are not clear. The service life of the product will be extended effectively and the safety and stability of charging will be significantly improved if the official LYBESS charger is used.

LYBESS chargers have CE/UL/FCC and other industry safety certifications, which can meet the product certification requirements of different countries/regions. Their stable quality and high stability are widely acclaimed.

- Other accessories

LYBESS' service tenet is customer first. Relying on our own rich resources in the industrial chain, we provide customers with efficient one-stop services.

LYBESS



THANKS FOR WATCHING

**For More Product Information,
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