

Jilipow Co., Ltd.**Specification of Battery Pack for Household ESS**

Prepared by	Checked by	Approved by

Model:JL-HVS-5.0

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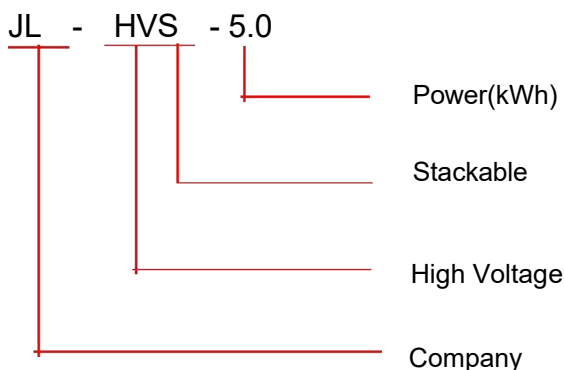
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1. Product Overview

The definition of product model is shown as follows.



The purpose of this document is to specify the structure design, basic performance and product precautions of battery pack: 51.2V 100Ah, which is mainly applied in household ESS. EVE can provide diverse product solutions according to customers' demands. The supply scope of this product is: battery pack; customer's accessories battery pack fixing screws. The details are as follows.

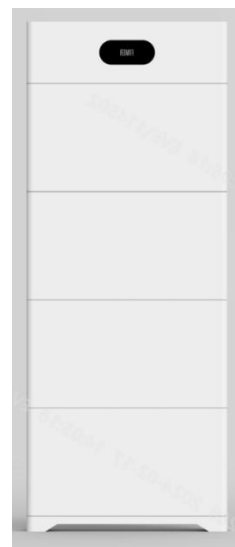
Table 1 Components of battery pack

No.	Component	Model	Quantity
1	Battery system	JILIPOW-HVS-5.0/10.0/15.0/20.0	1
2	Test report		1
3	Product certificate		1
4	Product packaging		1

Note: The specific model, specification and quantity are subject to confirmation before delivery.

2. Product Features

- Compact size and easy installation
- Product diversification through parallel solutions (max: 16 pack in parallel)
- Long cycle life and high safety
- Certification: meet the standards of UN38.3, IEC62619, CE



3. Product Specification

3.1. Technical Parameters

The prismatic LFP battery cell LF100LA(3.2V 102Ah)which is independently developed and produced by JILiPOW,has the characteristics of high safety,longer cycle life,high consistency,excellent charge/discharge performance and green pollution-free.The main technical parameters are as below:

Table 3 Technical parameters (cell)

No	Item	Specification	Remark
1	Rated capacity	102Ah	0.2C,25℃±2℃,2.5-3.65V
2	Rated voltage	3.2V	
3	Operating voltage	2.5V-3.65V	
4	Dimension	T×W×H (50.1±0.5)mm*(160±0.8)mm* (118.5±0.5)mm	
5	Weight	1.985±0.1kg	

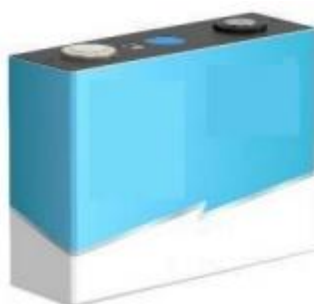


Figure 2 Battery cell:LF100LA

3.2. Technical Parameters (Battery system)

Table 4 Technical Parameters Data

General specifications			
Battery system	JILiPOW-HVS-5.0	JILiPOW-HVS-10.0	JILiPOW-HVS-15.0
Cell	(LiFePO ₄)		
Battery module	JILiPOW-HVS-5 kWh		
Battery module energy	5kWh		
Number of battery modules	1	2	3
Battery usable energy	5kWh	10kWh	15kWh
Max.output power	2.5kW	5kW	7.5kW
Peak output power	3.5kW,10s	7kW,10s	10.5kW,10s
Nominal voltage (single-phase system)	400 V		
Operating voltage range (single-phase system)	350~600 V		
Display	LED indicator, SOC status indicator		
Communication	RS485/CAN		
IP Grade	IP66		
Operative temperature	-20℃ to +55 ℃		
Operating altitude	>2000 m		
Environment	Outdoor/indoor		
Working humidity	10%-85%		
Cooling	Natural cooling/air cooling		

4. Product Appearance and Structure

4.1 Dimension

The battery pack is consisted of 16pcs LF100LA cells configured in 1P16S, and its dimension is presented as follows

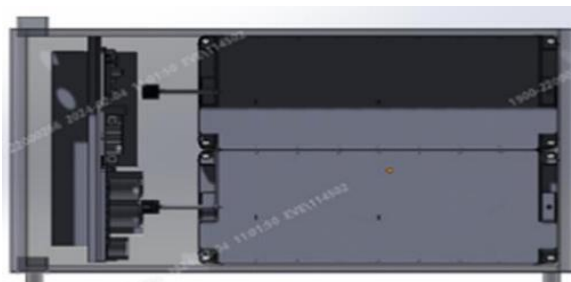


Figure 3 The dimension of battery pack

4.2 Connection interface

Electrical interface	Name	Definition	Remarks
Communication port	CAN-L2	CAN Signal 2-L	
	CAN-H2	CAN Signal 2-H	
	RS485A	485 Signal A	
	RS485B	485 Signal B	
	CAN-L	CAN Signal 1-L	
	CAN-H	CAN Signal 1-H	

Note:The specific interface model and pin definition are subject to confirmation before delivery.

5. Product Instructions

1. The battery pack can be used alone or multiple in parallel, and the parallel quantity shall not exceed the value specified by both parties.
2. The battery pack must be operated within the specified charge conditions. Overcharge will lead the electrical performance, mechanical performance and safety performance of the battery pack to be decreased.
3. The battery pack must be operated within the specified discharge conditions. Over-discharge will lead the electrical performance, mechanical performance and safety performance of the battery pack to be decreased.
4. The battery pack must be operated within the specified environment conditions, since too high or too low ambient temperature will affect the battery performance.
5. The battery pack shall be used or stored in clean, dry and ventilated environmental conditions, and avoid contact with corrosive substances and keep away from fire and heat sources.
6. The battery pack shall not be used or stored in places with strong static electricity and strong magnetic fields to avoid potential safety hazards.
7. Before the battery pack is installed or wired, it is forbidden to remove the dust cover of positive and negative terminals, and the communication socket to avoid short circuit and interface dust.
8. The product shall not be disassembled or modified without the permission of EVE, otherwise the warranty will be terminated, and our company will not be responsible for any safety accidents.
9. Do not mix the battery with metal objects to avoid short circuits and safety risks.
10. The battery pack must be installed or stored upright in accordance with the design state, and it is strictly forbidden to put it on its side or upside down.
11. Do not use the battery if there is corrosion, unpleasant smell or any abnormality during the first usage.
12. Do not throw the battery into water.
13. Do not reversely charge or discharge the battery.
14. The usage of the battery pack must strictly comply with the above requirements, otherwise the warranty will be terminated, and JILiPOW will not be responsible for any product performance damages or safety accidents.

6. Product Maintenance

1. When the battery pack not in use for a long time, it is recommended to maintain the SOC at 30%~50%.
2. When the battery pack not in use for a long time, it shall be charged every 3 months regularly in case of the occurrence of over-discharge; And it is recommended to cyclically charge and discharge the battery module every 6 months.

★ Disclaimer: These mentioned products shall be used within the scope specified in product specifications. The manufacturer shall be free from liability for any damages to people, animals or property caused by the improper operations in the process of installation, commissioning, maintenance, use, etc., or uses not in accordance with the terms and conditions specified in product specifications.