

Residential LFP Battery Series

HS5-5A

102.4V 50Ah 5.12kWh

Version: V1.0



The HS5-5A features a more compact and lightweight module design with a plug-and-stack installation method. Simple and quick assembly allows for flexible customization of battery banks to meet diverse energy storage needs. Equipped with an intelligent BMS, it continuously monitors and optimizes battery performance to extend service life, and supports remote management via a mobile app so you can stay informed of household energy status at all times. Comprehensive protections against over-charge, over-discharge, short circuit, and extreme temperatures ensure safe operation in all scenarios—making it a reliable choice for residential energy security.

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Product Advantages



Multi – scenario Application

- Stackable design; the battery also has mobile energy storage functionality
- with an IP65 protection rating, suitable for various weather conditions



Safety and Longevity

- A + grade lithium iron phosphate battery
- built - in thermal aerosol fire extinguishing device



Remote System Upgrades

- OTimely repair of system vulnerabilities, performance improvement25.6 kWh per cluster
- and addition of new functions to enhance device safety and stability



Flexible Scalability

- One cluster can connect 5 batteries in series, with a maximum capacity of 25.6 kWh per cluster; up to 4 clusters can be connected in parallel, with a maximum parallel capacity of 102.4 kWh








Certifications

- IEC/EN 62619, IEC 61000, UN 38.3,MSDS

Dimensions



Technical Parameters		HS5-5A			
Layers	1 Layer	2 Layers	3 Layers	4 Layers	5 Layers
Picture					
Power Capacity	5.12KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh
Operating Voltage Range	89.6-116.8V	179.2-233.6V	268.8-350.4V	358.4-467.2V	448-584V
Dimensions (L*W*H)	575*275*696mm	575*275*986mm	575*275*1276mm	575*275*1566mm	575*275*1856mm
Weight	59.5kg	94.5kg	129.5kg	164.5kg	199.5kg

Single Module Technical Parameters

Dimensions (L* W* H)	High voltage box:575*275*258mm, Battery: 575*275*290mm, Base:575*275*148mm	
Weight	High voltage box: 16 kg, Battery: 35 kg, Base: 8.5 kg	
Rated Voltage	102.4V	
Rated Capacity	50Ah	
Power Capacity	5.12KWh	
Recommended Charging Current	25A	
Maximum Continuous Charging Current	50A	
Maximum Continuous Discharging Current	50A	
Charging Temperature	0-45°C	
Discharging Temperature	-20-55°C	
Operating Environment	Indoor or under outdoor eaves	
Altitude	3000m	
Relative Humidity	5%~95%	
Cooling Method	Natural cooling	
Cell	Lithium-Iron Phosphate (LiFePO ₄)	
IP Rating	IP65	
Cycle Life	6000 times @80%DOD(25℃)	
Communication Interfaces	CAN/RS485	
Extended Functions	Single - pack thermal aerosol fire extinguishing device (standard); Heating function (optional)	
Certifications	IEC/EN 62619、IEC 61000、UN 38.3、MSDS	

*There may be slight differences between the actual product and some promotional videos or images; please refer to the actual product. Unless otherwise specified, all data on this page are from our laboratory, and errors may exist due to changes in objective conditions.
*Specifications are subject to change without prior notice.