



# Residential LFP Battery Series

S5-5D

51.2V 100Ah 5.12kWh

The S5000 features ultra-compact and lightweight monolithic modules with an innovative stackable snap-fit design. Its simple installation process allows for effortless customization of battery modules to meet diverse energy storage requirements. The entire system, supported by a reliable BMS (Battery Management System), delivers intelligent and flexible operation while ensuring a stable power management platform.

Developed by Lithium Valley, the S5000 represents a new generation of low-voltage battery systems. Its flexible modular architecture supports configurations from 1 to 5 stackable battery modules, offering capacity options from 5.12 kWh to 25.6 kWh with voltage ranges between 44.8V and 56.16V. This system provides the ideal energy storage solution for residential solar applications, suitable for both grid-tied and off-grid installations. The stackable low-voltage battery design enables maximized utilization of clean energy with outstanding efficiency.

## Product advantages



### Unique design

Modular layout, combining curved surface aesthetics and space-saving design



### Extended function

Battery heating



### Safe and reliable

Single-pack IP65 hot air fire extinguisher



### Low-cost maintenance

Perform the firmware update service through the integrated BLE



### Simple installation

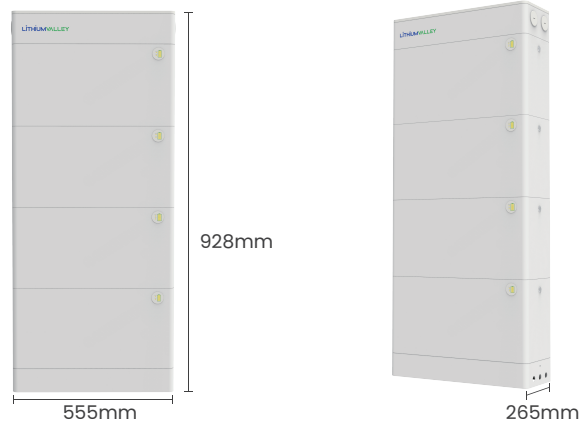
Quickly install the connector without wiring





### Expandable capacity

It is recommended that the number of floors be within five

# Dimensioni



Model	S5-5D				
Nominal Voltage	1 strato	2 strati	3 strati	4 strati	5 strati
Picture					
Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh	25.6kWh
Operating Voltage Range	44.8-57.6V				
Charge/Discharge current	100A	200A	200A	200A	200A
Dimensioni(L*W*H)	600*210*512mm	600*210*812mm	600*210*1112mm	600*210*1412mm	600*210*1712mm
Weight	59.0kg	104.5kg	150.0kg	195.5kg	241.0kg

## Technical specifications of the individual module

Dimensioni(L*W*H)	Combiner box: 600*210*122mm, Battery: 600*210*300mm, Base: 600*210*90mm	
Weight	Combiner box: 7kg, Battery: 45.5kg, Base: 6.5kg	
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	
Energy	5.12kWh	
Recommendcharge current	50A	
MAX. continuous charge	100A	
MAX. discharge current	100A	
Chargingtemperature	0-55°C	
Discharge temperature	-20-60°C	
Environment	Under the eaves outside	
Altitude	3000m	
Relative humidity	5%~95%	
Cooling	Natural cooling	
Cell technology	Lithium-iron phosphate (LiFePO4)	
IP Rating	IP65	
Life cycle	6000 times @80%DOD	
Communication	CAN/RS485	
Expansion function	Single-package level hot aerosol fire extinguishing device (standard configuration)/Heating function (optional)	
Certificates	CE-EMC, CB, CEI 0-21, UN38.3, MSDS, REACH, ROHS	

\*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.  
\*The specifications are subject to change without prior notice.