LITHIUMVALLEY

Version: V2.0



Residential LFP Battery Series

S5-5D **51.2V 100Ah 5.12kWh**

The S5-5D 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 LithiumValley, the S5-5D 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

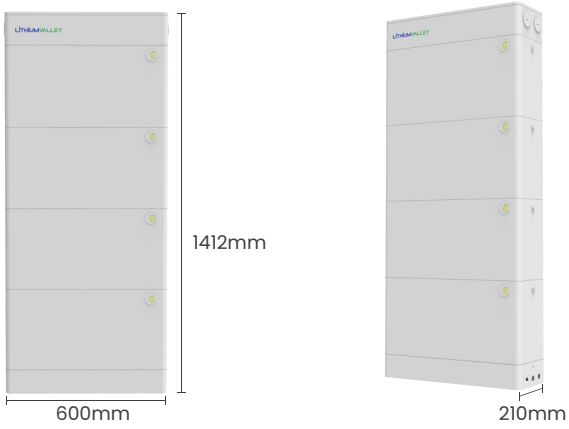
Safe and reliable
Single-pack IP65 hot air fire extinguisher

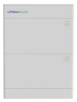
Low-cost maintenance
Perform the firmware update service through the integrated BLE

Simple installation
Quickly install the connector without wiring

Expandable capacity
It is recommended that the number of floors be within five

Dimensioni



Model	S5000				
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	59kg	104.5kg	150kg	195.5kg	241kg

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℃
Discharge temperature	-20-60℃
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.

LITHIUMVALLEY
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