

Stackable High Voltage Lithium Battery

SAS51100-HV

51.2V 100Ah

LFP Battery



PRODUCT FEATURE



HIGH CYCLE LIFE

Can achieve 6000 cycles at 90% state of charge, effectively reducing total cost of ownership.



FAST CHARGING SPEED

High charge and discharge efficiency, reducing equipment downtime and saving more time.



HIGHLY ADAPTABLE

Strong environmental adaptability, can withstand up to 60°C.



SAFER

Real-time monitoring of PDU for better system protection.



EASY TO STORE

Due to its extremely low self-discharge rate (LSD) and no risk of sulfation, it can last up to 6 months.



EASY TO STORE

Lithium batteries provide more watt-hours per kilogram while weighing only one-third of their SLA equivalents.



Rechargeable LITHIUM IRON PHOSPHATE (LiFePO₄) Battery

DATASHEET

MODEL

Battery Type	LiFePO ₄
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Net Weight	40.8kg
Dimension(W/D/H)	482*475*133mm
Communication	RS232/RS485/CAN/BLUETOOTH/WIFI
Cycle Life*	6000 cycles 90% DOD,0.5C
Protection Level	IP20
Expansion	Up to 15 units in series
Compatible Inverters	Deye/GoodWe/Solis/SAJ/Sinexcel/Hoymiles/Growatt/Ecatus/Sermatec/ATESS/Sunways etc.
Certification & Safety Standard	UN38.3, MSDS, IEC62619, CE, UL1973, UL2054

Stackable Type	SAS-40.96kWh-Z	SAS-46.08kWh-Z	SAS-51.20kWh-Z	SAS-56.32kWh-Z
Battery Module Quantity	8units	9units	10units	11units
Nominal Battery Energy	40.96kWh	46.08kWh	51.20kWh	56.32kWh
Nominal Capacity	100Ah	100Ah	100Ah	100Ah
Nominal Voltage	409.6V	460.8V	512V	563.2V
Max.Power Output	40.96kW	46.08kW	51.20kW	56.32kW
Discharge Cut-off Voltage	352V	396V	440V	484V
Charge Cut-off Voltage	454.4V	511.2V	568V	624.8V
Recommend Charging Current	50A	50A	50A	50A
Recommend Discharging Current	50A	50A	50A	50A
Max Charge/Discharge Working Current (A)	100A	100A	100A	100A
Net Weight	326.4kg	367.2kg	408kg	448.8kg
Working temperature	Charge : 0 ~ 55 °C / Discharge : -20 °C ~ 55 °C			
Design Life	10 years+			

*File version: 2026V1-EN

*Weight and Size of the battery module is based on the actual product,

*Specifications may vary during continuous improvements, pls contactus for latest details.

*The installation of battery packs is related to product quality assurance, safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and routine maintenance

*Each column can hold a maximum of 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.



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