

Z SERIES

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.



Email: info@sailsolarpv.com Web: www.sailsolarpv.com / www.sailsolaress.com
Add: Cross Border E-Commerce Supervision Zone, Yulei Road, Hefei, Anhui, China



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 80% 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-61.44kWh-Z	SAS-66.56kWh-Z	SAS-71.68kWh-Z	SAS-76.8kWh-Z
Battery Module Quantity	12units	13units	14units	15units
Nominal Battery Energy	61.44kWh	66.56kWh	71.68kWh	76.8kWh
Nominal Capacity	100Ah	100Ah	100Ah	100Ah
Nominal Voltage	614.4V	665.6V	716.8V	768.0V
Max.Power Output	61.44kW	66.56kW	71.68kW	76.8kW
Discharge Cut-off Voltage	528V	572V	616V	660V
Charge Cut-off Voltage	681.6V	738.4V	795.2V	852V
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	489.6kg	530.4kg	571.2kg	612kg
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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