

Stackable High Voltage Lithium Battery
SAS51314-HV

51.2V 314Ah

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.



DATASHEET

MODEL

Battery Type	LiFePO ₄				
Nominal Battery Energy	16.07kWh				
Nominal Capacity	314Ah				
Nominal Voltage	51.2V				
Net Weight	119kg				
Dimension(W/D/H)	798*478*278mm				
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-112.49kWh-Z	SAS-128.56kWh-Z	SAS-144.63kWh-Z	SAS-160.7kWh-Z	SAS-176.77kWh-Z
Battery Module Quantity	7units	8units	9units	10units	11units
Nominal Battery Energy	112.49kWh	128.56kWh	144.63kWh	160.7kWh	176.77kWh
Nominal Capacity	314Ah	314Ah	314Ah	314Ah	314Ah
Nominal Voltage	358.4V	409.6V	460.8V	512V	563.2V
Max.Power Output	112.49kW	128.56kW	144.63kW	160.7kW	176.77kW
Discharge Cut-off Voltage	308	352	396	440	484
Charge Cut-off Voltage	397.6	454.4	511.2	568	624.8
Recommend Charging Current	100	100	100	100	100
Recommend Discharging Current	100	100	100	100	100
Max Charge/Discharge Working Current (A)	200	200	200	200	200
Net Weight	833KG	952KG	1,071KG	1,190KG	1,309KG
Working temperature	Charge : 0 ~ 55 C / Discharge : -20 C ~ 55 C				
Transport or Storage Temperature Range	-20-60°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 contact us 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 5 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team

