

Z SERIES

Stackable High Voltage Lithium Battery

SAS51280-HV

51.2V 280Ah

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.



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DATASHEET

MODEL

Battery Type	LiFePO ₄
Nominal Battery Energy	14.336kWh
Nominal Capacity	280Ah
Nominal Voltage	51.2V
Net Weight	115.2kg
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-100.3KWH-Z	SAS-114.6KWH-Z	SAS-129KWH-Z	SAS-143.3KWH-Z
Battery Module Quantity	7units	8units	9units	10units
Nominal Battery Energy	100.3kWh	114.6kWh	129kWh	143.3kWh
Nominal Capacity	280Ah	280Ah	280Ah	280Ah
Nominal Voltage	358.4V	409.6V	460.8V	512V
Max.Power Output	100.3kW	114.6kW	129kW	143.3kW
Discharge Cut-off Voltage	308V	352V	396V	440V
Charge Cut-off Voltage	397.6V	454.4V	511.2V	568V
Recommend Charging Current	100A	100A	100A	100A
Recommend Discharging Current	100A	100A	100A	100A
Max Charge/Discharge Working Current (A)	200A	200A	200A	200A
Net Weight	806.4KG	921.6KG	1,036.8KG	1,152KG
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 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

