


R SERIES

# RACK HIGH VOLTAGE LITHIUM BATTERY



 Flexible Expansion

 Battery Protection

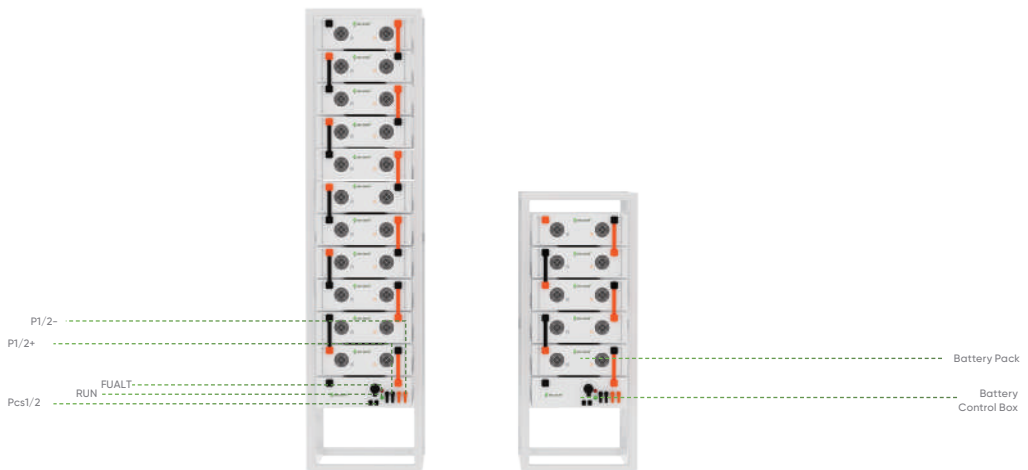
 Long-term Reliability

 Economic

 Wide Compatibility

 IP20

## System Productization



# RACK HIGH VOLTAGE LITHIUM BATTERY

## DATASHEET

### MODEL

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Net Weight	43.5kg
Dimension(W/D/H)	440/420/133mm
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

Rack Type	SAS-40.96KWH-R	SAS-46.08KWH-R	SAS-51.2KWH-R	SAS-56.32KWH-R
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	420KG	470KG	520KG	570KG
Working temperature	Charge : 0 ~ 55 C / Discharge : -20 C ~ 55 C			
Design Life	10 years+			
Dimension(W/D/H)(mm)	600*550*1368	600*550*1520	600*550*1672	600*550*1825
Module Quantity and Configuration	8 Units in series	9 Units in series	10 Units in series	11 Units in series

\*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 10 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.

