

# Z Series Stackable High Voltage Lithium Battery

Rechargeable LITHIUM IRON PHOSPHATE  
(LiFePO4) Battery



## DATASHEET

### MODEL

Battery Type	LiFePO4
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

Battery Module Quantity	4-7units	8-11units	12-15units
Nominal Battery Energy	5.12kWh*N(N=4-7)	5.12kWh*N(N=8-11)	5.12kWh*N(N=12-15)
Nominal Capacity	100AH	100AH	100AH
Nominal Voltage	5.12V*N(N=4-7)	5.12V*N(N=8-11)	5.12V*N(N=12-15)
Max.Power Output	5.12kW*N(N=4-7)	5.12kW*N(N=8-11)	5.12kW*N(N=12-15)
Discharge Cut-off Voltage	44V*N(N=4-7)	44V*N(N=8-11)	44V*N(N=12-15)
Charge Cut-off Voltage	56.8V*N(N=4-7)	56.8V*N(N=8-11)	56.8V*N(N=12-15)
Recommend Charging Current	50A	50A	50A
Recommend Discharging Current	50A	50A	50A
Max Charge/Discharge Working Current (A)	100A	100A	100A
Net Weight	40.2KG*N(N=4-7)	40.2KG*N(N=8-11)	40.2KG*N(N=12-15)
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 6 batteries plus one high-voltage box, please confirm the number of batteries per column with the sales team.

## 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.