

# Rack-mounted Energy Storage

HOME INDUSTRIAL



Featuring a pack modular design, rack-mounted energy storage systems offer strong universality, easy installation, and simple operation. These systems provide high reliability and safety while promoting efficient ventilation and heat dissipation. Equipped with long-lasting lithium iron phosphate batteries, they are ideal for both home and industrial applications.



Model	HLA-4850	HLA-48100	HLA-48150	HLA-48200
Standard Voltage	48VDC			
Voltage	37.5-54.75VDC			
Normal Capacity	50Ah	100Ah	150Ah	200Ah
Rated Capacity	2.4kWh	4.8kWh	7.2kWh	9.6kWh
Communication Protocol	CAN / RS485 / WIFI / 4G / Blue Tooth			
Efficiency (at 0.5C)	98%			
Cell Self-Discharge	<5 % / Month			
Maximum Allowed Modules in Parallet	15 (36kWh)	15 (72kWh)	15 (108kWh)	15 (144kWh)
Depth of Discharge	Up to 100%			
Useful Life	8- 10 Years			
Cycle Life	6000 (@ 80% DoD)			
Protection	Over temperature, overcurrent, short circuit, over-charging, over-discharging, Low voltage			

Charge Specifications				
Recommended Charge Current	25A	50A	50A	50A
Maximum Charge Current	50A	100A	100A	100A
Recommended Charge Voltage	54V	54V	54V	54V
Maximum Charge Voltage	54.75V	54.75V	54.75V	54.75V

Discharge Specifications				
Recommended Discharge Current	25A	50A	50A	50A
Maximum Discharge Current	50A	100A	100A	100A
Recommended Low Voltage Disconnect	41.25V	41.25V	41.25V	41.25V
Battery Low Voltage Protection	39.75V	39.75V	39.75V	39.75V
Battery Recovery Voltage	45V	45V	45V	45V

Mechanical Specifications				
Dimensions	484*410* 120mm	484*410* 178mm	484*590* 178mm	484*590*178mm
Weight	24.5kgs	38.5kgs	59kgs	70.5kgs
Terminal Type	M6			
Case Material	Industrial Grade Iron			
Enclosure Protection	IP20			
Installation	Cabinet			
Cell Type Chemistry	LiFeP04			

Compliance Specifications				
Certifications	CE,FCC, CCC			
Shipping Classification	UN 38.3. UN 3480, Class 9			

Temperature Specifications				
Discharge Temperature	-20~65 °C	-20~65 °C	-20~65 °C	-20~65 °C
Charge Temperature	0~55 °C	0~55 °C	0~55 °C	0~55 °C
Storage Temperature	-20~45 °C	-20~45 °C	-20~45 °C	-20~45 °C