

LiFePO4 BATTERY



Typical Applications

- Renewable energy storage systems: Efficiently store solar and wind energy for consistent power supply in off-grid setups.
- Electric vehicles and marine applications: Power electric cars, boats, or yachts with lightweight and durable batteries.
- Telecommunication base stations: Provide reliable backup energy to maintain uninterrupted communication during power outages.
- Emergency power supply systems: Deliver dependable energy during critical situations in hospitals, homes, or businesses.

Features

- Safe lithium iron phosphate (LiFePO4) cells Durable protective structure
- Supports up to 98% DOD Fast charging and discharging capability
- Expandable with up to 16 parallel connections
- Smart BMS for optimized performance Real-time monitoring via mobile apps and PC access
- Easy and flexible installation options Designed for convenient wall-mounted setup
- Up to 10 years lifespan

Technical Data

Specification	SH-UIB-P12100	SH-UIB-P12150	SH-UIB-P12200	Humidity (%)	≤95		
Nominal Voltage	12.8V	12.8V	12.8V	IP Rating	IP65		
Rated Capacity	100Ah	150Ah	200Ah	Transportation Certification	UN38.3/MSDS/DGM		
Nominal Capacity	1.28kWh	1.92kWh	2.56kWh	Communication	RS485/RS232/CAN		
Operating Voltage Range	10~14.6V	10~14.6V	10~14.6V	Charging Method	CC/CV	CC/CV	CC/CV
Cell Type	LFP	LFP	LFP	Charging Current (C)	0.5C	0.5C	0.5C
Battery Configuration	1P4S	1P4S	1P4S	Maximum Charging Current (A)	50	75	100
Dimensions (mm)	332x172x220	332x172x220	520x244x221	Charging Cut-off Voltage (V)	10		
Weight (kg)	13	16	21	Discharge Mode	CC/CV/CP	CC/CV/CP	CC/CV/CP
Charge Temperature(°C)	0 ~ +45			Charge/Discharge Rate (C)	1C		
Discharge Temperature (°C)	-20 ~ +50			Maximum Discharge Current (A)	100	150	200
Depth of Discharge (%)	98			Discharge Cut-off Voltage (V)	14.6		
Cooling	Natural	Natural	Natural				
Max. Operating Altitude (m)	2000	2000	2000				
Nominal Charging Current (A)	50	75	100				
Nominal Discharging Current (A)	≤100	≤150	120				