Haicen Power Co., Ltd.

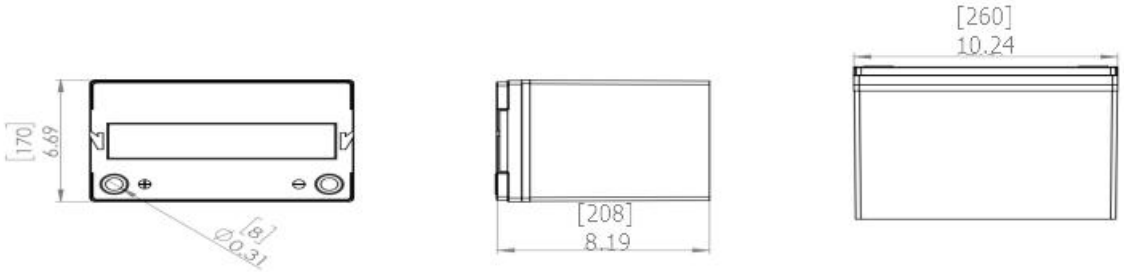
Global Leading LiFePO4 Manufacturer

LiFePO4 BatteryPack
HC12.8V90Ah

Features of LiFePO4 Battery

- **Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power**: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range**: -20℃~60℃.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- **Increased Flexibility:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

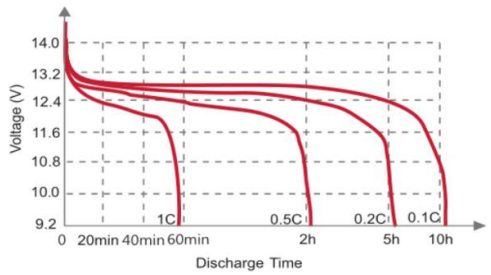
Dimensions



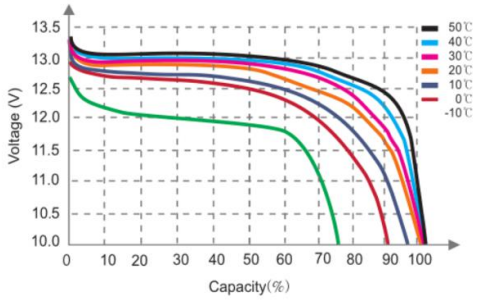
Specification

Electrical Characteristics	Nominal Voltage	12.8V	
	Rated Capacity (77°F/25°C)	90Ah @0.5C	
	Circuit Protection	Over charge, Over discharge, Over current, Over temp, Short, Balance	
	Cycle Life	3000times Cycles @100%DOD and 6000times @80% DOD	
	Monthly Self Discharge	Less than 2%	
	Efficiency of Charge	100% @0.5C	
	Efficiency of Discharge	96-99% @1C	
Charge	Charge Voltage	14.6±0.2V	
	Standard Charge Current	20A	
	Max.Charge Current	75A	
Discharge	Standard Discharge Current	40A	
	Max. Continuous Current	100A	
	Discharge Cut-off Voltage	10V	
Environmental	Charge Temperature	0℃-55℃	@60±25% Relative Humidity
	Discharge Temperature	-20℃-60℃	
	Storage Temperature	-20℃-45℃	
Dimensions	Group 24	260*170*208mm	
Case / IP class	Plastic case / IP65		
Terminal	M8		
Approx Weight	10 Kg		
Extended functions	Bluetooth APP could be download on Apple store or Google store		

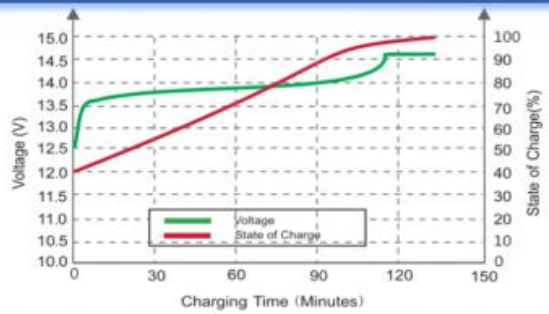
Different Rate Discharge Curve(25℃)



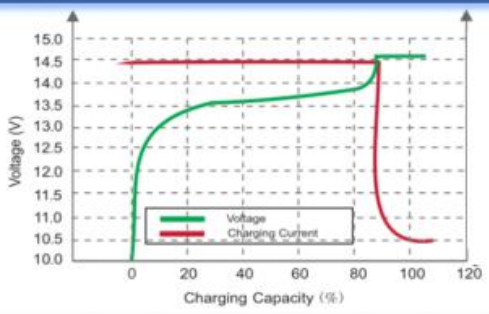
Different Temperature Discharge Curve (0.5C)



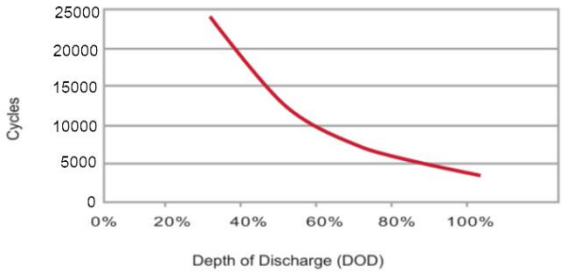
State of Charge Curve (0.5C, 25℃)



Charging Characteristics (0.5C,25℃)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve