

Battery Cell

HJLFP48

Application

Energy Storage Systems

Suitable for residential, commercial, and industrial energy storage applications, providing reliable power support

Electric Vehicles

Ideal for electric vehicle applications, offering high performance, safety, and long cycle life

Portable Power

Suitable for portable power applications, including backup power stations, camping equipment, and off-grid scenarios



Long Cycle Life

An average of over 4000 cycles ensures long-term reliability in energy storage and other applications.



High Energy Density

Delivers strong energy output in a compact design, maximizing energy efficiency while saving space.



Superior Safety Standards

Equipped with multiple safety features, including protection against overcharging, over-discharging, and short circuits, ensuring stable and safe operation.



Thermal Stability

Excellent thermal management ensures the battery cells perform optimally across a wide temperature range



Eco-Friendly and Sustainable Design

The LiFePO₄ chemistry is non-toxic, offering a safer and more environmentally friendly alternative.

Description

The HJLFP48 series lithium iron phosphate (LiFePO₄) battery cells are designed for energy storage systems, electric vehicles, and industrial applications. With outstanding safety, long cycle life, and high energy density, they are suitable for applications requiring reliable and efficient energy storage. The HJLFP48 series offers excellent thermal stability and structural integrity, ensuring long-lasting and stable performance, even under harsh conditions.

Technical Specification

Items	Technical parameters			
Type	HJLFP48173150E	HJLFP48173170E	HJLFP48173180E	HJLFP71173205
Voltage	3.2	3.2	3.2	3.2
Capacity	100	120	150	280
Internal Resistance(mΩ)	≤0.32	≤0.3	≤0.3	≤0.18
Operating Voltage	2.5~3.65(T>0°C)	2.5~3.65(T>0°C)	2.5~3.65(T>0°C)	2.5~3.65(T>0°C)
	2.0~3.65(T≤0°C)	2.0~3.65(T≤0°C)	2.0~3.65(T≤0°C)	2.0~3.65(T≤0°C)
Operating Temperature(C)	Charge:0~50	Charge:0~50	Charge:0~50	Charge:0~50
	Discharge:-20~55	Discharge:-20~55	Discharge:-20~55	Discharge:-20~55
	Storage:-30~45	Storage:-30~45	Storage:-30~45	Storage:-30~45
Standard Charge and Discharge	0.5C	0.5C	0.5C	0.5C
Sustainable Charge/Discharge Rate	2C,30s	1C	0.5C	1C
Specific Energy(Wh/Kg)	1C,120s	1C,120s	≥145	≥160
Cycle Life	≥3500 Times/ 0.5C@25°C100%DOD	≥5000 Times/ 1C@25°C100%DOD	≥3000 Times/ 0.5C@25°C100%DOD	≥5000 Times 0.5C@25°C100%DOD
Weight(Kg)	≤2.55	2.86	3.3	≤5.6

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