

SEMI-SOLID



Features

1. Enhanced Safety

This cell significantly reduces the proportion of flammable components, improves thermal safety, and performs more stably under abusive conditions such as nail penetration, crushing, and overcharging. It also prevents electrolyte leakage and internal short circuits—making it suitable for high-risk scenarios like industrial and commercial energy storage and marine applications, while meeting strict safety standards including UL, IEC, and GB.

2. Optimized Performance

It can achieve $\geq 6,000$ cycles (with 80% state of health retained), maintains stable performance in high-temperature environments of $45\text{--}60^{\circ}\text{C}$, and supports charge-discharge requirements of $0.5\text{--}1\text{C}$ for energy storage scenarios and $1\text{--}3\text{C}$ for power scenarios.

3. Manufacturing Compatibility

Upgraded based on the traditional LFP system, this cell balances safety and mass production feasibility. It is compatible with existing LFP production lines, effectively reducing manufacturers' production line transformation costs.

4. Application Suitability

Its long cycle life makes it suitable for long-life asset scenarios such as energy storage power stations, while its high-temperature stability and power capability cover medium-power application scenarios including high-temperature energy storage, construction machinery, and marine vessels.

Cell Specifications		
Mass Energy Density (Wh/kg)	≥ 165	≥ 180
Nominal Capacity (Ah)	280	314
Nominal Voltage (V)	3.2	
Energy Efficiency	$\sim 94\%$	$\geq 94.5\%$
Standard Charge/Discharge Rate	0.5	
Dimensions (mm)	174.2*71.7*207.1	
Cycle Life	≥ 10000 Cycles	
Operating Temperature ($^{\circ}\text{C}$)	$-30\text{--}60$	