587Ah Lithium-Ion Cell

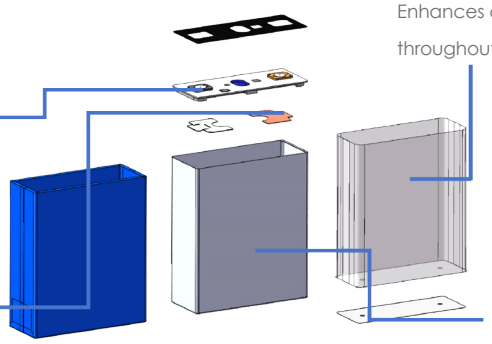


Capacity	Cycle Life	Efficiency	SOH
≥598Ah	10,000 cycles	94.5%	≥74%, 20 years

Jinko ESS 587Ah lithium-ion cell is a flagship product for ultra-large-capacity ESS, delivering upgrades in capacity, lifespan, efficiency, and safety to power larger containerized systems.

Full-Wrap Insulation for the Wound Electrode Assembly
Enhances corrosion protection and long-term reliability throughout the cell service life.

Fully Overmolded Terminal Insulation
Provides improved dielectric withstand capability to meet the insulation requirements.



Component-Level Short-Circuit Protection
Mitigates internal short-circuit risks at critical structural interfaces.

Space-Optimized Cell Architecture
Maximizes internal volume utilization to enable higher capacity.

Cell Specifications

Cathode Material	Lithium Iron Phosphate (LFP)
Nominal Capacity	587Ah
Initial Capacity	598Ah
Nominal Voltage	3.2V
Operating Voltage	2.5–3.65V
Initial Energy	≥1913.6Wh
Room Temperature Cycle Life	≥10,000 cycles (70% SOH)
Energy Efficiency	≥94.5% @ 25°C
Operating Temperature	−30–60°C
Calendar Life	20 years @ 70% EOL

Mechanical & System Specifications

Case Material	Aluminum
Cell Weight	10.3 ± 0.3kg
Dimensions (L × W × H)	286 × 73.5 × 218mm
Operating Altitude / Humidity	≤5,000m ≤95% RH

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