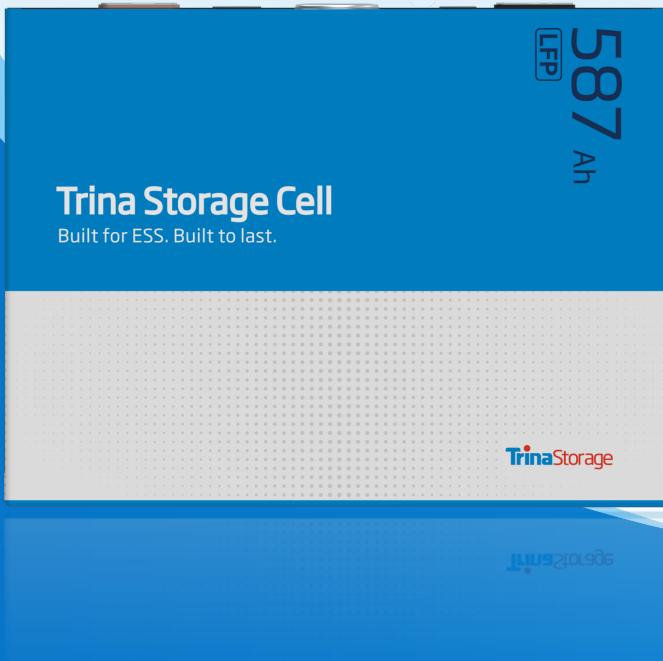


# 587Ah Prismatic LFP Cell



## Trina Storage Cell

Built for ESS. Built to last.

High-performance lithium-ion phosphate (LFP) battery cell designed for stationery storage applications.

Engineered with a focus on safety, quality, cost-optimization & extended cyclic lifetime.

### Ultra Long Lifecycle

- Extended lifecycle  $\geq 12000$  cycles
- Prolonged & stable performance
- 0 degradation in the first year
- Advanced battery chemistry

### Best-in-class Safety

- Vertically integrated, safe LFP cells
- Effective thermal management
- High quality materials
- Passes all safety tests

### Consistent

- Optimized cell design
- Low space utilization
- Enhanced battery pack density

### High Efficiency

- Low LCOS (levelized cost of storage)
- High energy conversion
- Superior cyclic efficiency

### Compliance

- RoHS

### Company Certifications

- ISO 9001, ISO 14001, ISO 45001

### Product Certifications & Reports

- IEC 62619, UL 1973, UL 9540A, UN 38.3

#### Disclaimer:

The information contained in this datasheet is provided for general informational purposes only. TrinaStorage Co. Ltd reserves the right to modify, update, or revise any specifications, features, or other details related to the 314Ah BESS cell without prior notice.

# Product Specifications



Cell Chemistry	<b>LFP</b>	Weight	<b>10.20±0.40kg</b>
Nameplate Capacity	<b>587Ah</b>	Impedance (1kHz)	<b>0.17±0.05mΩ</b>
Rated Energy	<b>1878.4Wh</b>	Energy Density	<b>184.0Wh/kg</b>
Rated P-Rate	<b>0.5P</b>	Cycle Life	<b>≥12000 cycles</b>
Rated Voltage	<b>3.2V</b>	Operating Voltage Range	<b>2.5~3.65V</b> Cell temperature T > 0°C
Rated Current	<b>293.5A</b>		<b>2.0~3.65V</b> Cell temperature T ≤ 0°C
DC-DC RTE	<b>94.5%</b>		

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