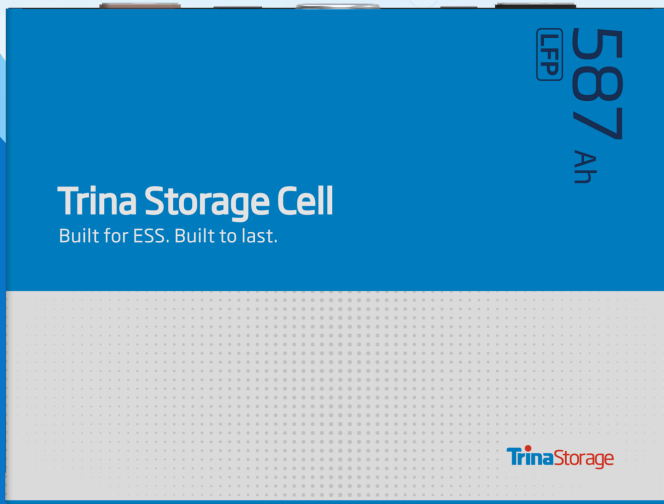


587Ah

Prismatic LFP Cell



587Ah LiFePo4 Battery Cell

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 ≥ 12000 cycles
- Prolonged & stable performance
- 0 degradation in the first year
- Advanced battery chemistry

Consistent

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

Compliance

- RoHS

Product Certifications & Reports

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

Best-in-class Safety

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

High Efficiency

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

Company Certifications

- ISO 9001, ISO 14001, ISO 45001

Product Specifications



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

Trina Storage Co., Ltd
E: Trinastorage@trinasolar.com



Official website



Social media

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 587Ah BESS cell without prior notice.