

Global Tabless Ternary (NCM/NCA) Lithium Cells Market Growth 2026-2032

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Abstracts

The global Tabless Ternary (NCM/NCA) Lithium Cells market size is predicted to grow from US\$ 587 million in 2025 to US\$ 3271 million in 2032; it is expected to grow at a CAGR of 28.0% from 2026 to 2032.

Tabless Ternary (NCM/NCA) Lithium Cells are lithium-ion cells that combine a tabless current-collection structure with ternary cathode systems such as NCM or NCA, designed to improve energy density, high-rate discharge capability, current distribution, and thermal stability under high-load operation. Compared with conventional ternary lithium cells using standard tab structures, their advantages lie in lower internal resistance, wider current conduction paths, stronger power output, faster heat spreading, and better suitability for compact high-power battery packs. In 2025, production was approximately 240 million units and the average price was USD 2.5 per unit. The industry's capacity utilization rate in 2025 was about 65% and the average gross margin was around 25%. Upstream, the key materials include ternary cathode materials, anode materials, and separators, with representative suppliers such as BTR, Shanshan, and Yunnan Energy New Material supporting the core material system for high-performance lithium-ion cells. The midstream segment focuses on tabless ternary cell structure design, NCM/NCA electrode formulation, continuous current-collection path optimization, winding process control, electrode edge welding, electrolyte injection, formation and grading, safety testing, consistency management, thermal performance verification, and automated mass production, which together determine energy density, power output, heat dissipation, cycle life, safety reliability, and cost competitiveness. Downstream, Tabless Ternary (NCM/NCA) Lithium Cells are mainly used in power tools, portable energy storage, and data center backup batteries.

Tabless Ternary Lithium Cells are positioned around a dual performance gain from

material chemistry and current-collection structure. Ternary lithium chemistry provides higher energy density, while the tabless design shortens current conduction paths, lowers internal resistance, improves charge-discharge efficiency, and supports larger discharge current. In power tools, this supports instant high-power output and better endurance under frequent load changes. In portable energy storage, it helps balance compact size, runtime, and output power. For data center backup batteries, stable pulse discharge and cell consistency matter more during emergency switching. With broader model supply across brands and capacities, competition will focus on material stability, tabless structural design, welding quality, thermal control, and application matching.

LP Information, Inc. (LPI) ' newest research report, the "Tabless Ternary (NCM/NCA) Lithium Cells Industry Forecast" looks at past sales and reviews total world Tabless Ternary (NCM/NCA) Lithium Cells sales in 2025, providing a comprehensive analysis by region and market sector of projected Tabless Ternary (NCM/NCA) Lithium Cells sales for 2026 through 2032. With Tabless Ternary (NCM/NCA) Lithium Cells sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Tabless Ternary (NCM/NCA) Lithium Cells industry.

This Insight Report provides a comprehensive analysis of the global Tabless Ternary (NCM/NCA) Lithium Cells landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Tabless Ternary (NCM/NCA) Lithium Cells portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tabless Ternary (NCM/NCA) Lithium Cells market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tabless Ternary (NCM/NCA) Lithium Cells and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Tabless Ternary (NCM/NCA) Lithium Cells.

This report presents a comprehensive overview, market shares, and growth opportunities of Tabless Ternary (NCM/NCA) Lithium Cells market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

21700 Battery Cells

18650 Battery Cells

Others

Segmentation by Single-Cell Capacity:

4000mAh

5000mAh

Others

Segmentation by Maximum Current:

30A?Current

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