

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

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Abstracts

The global Full Tab 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.

Full Tab Ternary (NCM/NCA) Lithium Cells are lithium-ion cells that combine a full-tab current-collection structure with ternary cathode systems such as NCM or NCA, designed to deliver higher energy density, stronger high-rate discharge capability, improved heat dissipation, and better stability under high-load operation. Compared with conventional ternary lithium cells using standard tab structures, their advantages lie in lower internal resistance, faster current transmission, stronger power output, better thermal control, and higher 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 full-tab ternary cell structure design, NCM/NCA electrode formulation, current-collection path optimization, winding process control, electrode 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, Full Tab Ternary (NCM/NCA) Lithium Cells are mainly used in power tools, portable energy storage, and data center backup batteries.

Full Tab Ternary (NCM/NCA) Lithium Cells will be driven by applications that require

both high energy density and strong power delivery. In power tools, the full-tab structure helps ternary cells release high current more efficiently while controlling heat during frequent load changes. In portable energy storage, the advantage is a better balance between compact size, endurance, and output power. For data center backup batteries, stable pulse discharge, consistency, and thermal safety become more important during emergency switching. As downstream customers raise requirements for energy, power, and reliability at the same time, competition will shift toward full-tab design, ternary material stability, welding quality, and cell consistency.

LP Information, Inc. (LPI) ' newest research report, the "Full Tab Ternary (NCM/NCA) Lithium Cells Industry Forecast" looks at past sales and reviews total world Full Tab Ternary (NCM/NCA) Lithium Cells sales in 2025, providing a comprehensive analysis by region and market sector of projected Full Tab Ternary (NCM/NCA) Lithium Cells sales for 2026 through 2032. With Full Tab 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 Full Tab Ternary (NCM/NCA) Lithium Cells industry.

This Insight Report provides a comprehensive analysis of the global Full Tab 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 Full Tab 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 Full Tab Ternary (NCM/NCA) Lithium Cells market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Full Tab 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 Full Tab Ternary (NCM/NCA) Lithium Cells.

This report presents a comprehensive overview, market shares, and growth opportunities of Full Tab 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

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Full Tab Ternary (NCM/NCA) Lithium Cells Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Full Tab Ternary (NCM/NCA) Lithium Cells by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Full Tab Ternary (NCM/NCA) Lithium Cells by Country/Region, 2021, 2025 & 2032
- 2.2 Full Tab Ternary (NCM/NCA) Lithium Cells Segment by Type
 - 2.2.1 21700 Battery Cells
 - 2.2.2 18650 Battery Cells
 - 2.2.3 Others
 - 2.2.4 Full Tab Ternary (NCM/NCA) Lithium Cells Sales by Type
 - 2.2.4.1 Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Full Tab Ternary (NCM/NCA) Lithium Cells Sale Price by Type (2021-2026)
- 2.3 Full Tab Ternary (NCM/NCA) Lithium Cells Segment by Single-Cell Capacity
 - 2.3.1 4000mAh
 - 2.3.2 5000mAh
 - 2.3.3 Others
 - 2.3.4 Full Tab Ternary (NCM/NCA) Lithium Cells Sales by Single-Cell Capacity
 - 2.3.4.1 Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Single-Cell Capacity (2021-2026)

2.3.4.2 Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue and Market Share by Single-Cell Capacity (2021-2026)

2.3.4.3 Global Full Tab Ternary (NCM/NCA) Lithium Cells Sale Price by Single-Cell Capacity (2021-2026)

2.4 Full Tab Ternary (NCM/NCA) Lithium Cells Segment by Maximum Current

2.4.1 30A?Current

List Of Tables

LIST OF TABLES

Table 1. Full Tab Ternary (NCM/NCA) Lithium Cells Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Full Tab Ternary (NCM/NCA) Lithium Cells Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of 21700 Battery Cells

Table 4. Major Players of 18650 Battery Cells

Table 5. Major Players of Others

Table 6. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales by Type (2021-2026) & (K Units)

Table 7. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Type (2021-2026)

Table 8. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue Market Share by Type (2021-2026)

Table 10. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of 4000mAh

Table 12. Major Players of 5000mAh

Table 13. Major Players of Others

Table 14. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales by Single-Cell Capacity (2021-2026) & (K Units)

Table 15. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Single-Cell Capacity (2021-2026)

Table 16. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue by Single-Cell Capacity (2021-2026) & (\$ million)

Table 17. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue Market Share by Single-Cell Capacity (2021-2026)

Table 18. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sale Price by Single-Cell Capacity (2021-2026) & (US\$/Unit)

Table 19. Major Players of 30A?Current

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Full Tab Ternary (NCM/NCA) Lithium Cells
- Figure 2. Full Tab Ternary (NCM/NCA) Lithium Cells Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Full Tab Ternary (NCM/NCA) Lithium Cells Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Country/Region (2025)
- Figure 10. Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 21700 Battery Cells
- Figure 12. Product Picture of 18650 Battery Cells
- Figure 13. Product Picture of Others
- Figure 14. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Type in 2026
- Figure 15. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of 4000mAh
- Figure 17. Product Picture of 5000mAh
- Figure 18. Product Picture of Others
- Figure 19. Global Full Tab Ternary (NCM/NCA) Lithium Cells Sales Market Share by Single-Cell Capacity in 2026
- Figure 20. Global Full Tab Ternary (NCM/NCA) Lithium Cells Revenue Market Share by Single-Cell Capacity (2021-2026)
- Figure 21. Product Picture of 30A?Current

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