

Global Tabless Ternary (NCM/NCA) Lithium Cells Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tabless Ternary (NCM/NCA) Lithium Cells market size was valued at US\$ 617 million in 2025 and is forecast to a readjusted size of US\$ 3184 million by 2032 with a CAGR of 26.4% during review period.

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.

This report is a detailed and comprehensive analysis for global Tabless Ternary (NCM/NCA) Lithium Cells market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tabless Ternary (NCM/NCA) Lithium Cells market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tabless Ternary (NCM/NCA) Lithium Cells market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tabless Ternary (NCM/NCA) Lithium Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Tabless Ternary (NCM/NCA) Lithium Cells market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

Global Tabless Ternary (NCM/NCA) Lithium Cells Market 2026 by Manufacturers, Regions, Type and Application, Fo...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Tabless Ternary (NCM/NCA) Lithium Cells

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Tabless Ternary (NCM/NCA) Lithium Cells market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include EVE Energy (China), Sunpower (China), Lishen (China), BAK Battery (China), Greatpower (China), Ampace (China), Guangdong Greenway Technology (China), Tenpower (China), Reliance (China), BTCAP (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Tabless Ternary (NCM/NCA) Lithium Cells market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

21700 Battery Cells

18650 Battery Cells

Others

Market segment by Single-Cell Capacity

4000mAh

5000mAh

Others

Market segment by Maximum Current

30A?Current

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