

Global Tabless Small Cylindrical Cells Market Growth 2026-2032

<https://marketpublishers.com/r/G27FCADB2D19EN.html>

Date: July 2026

Pages: 123

Price: US\$ 3,660.00 (Single User License)

ID: G27FCADB2D19EN

Abstracts

The global Tabless Small Cylindrical Cells market size is predicted to grow from US\$ 812 million in 2025 to US\$ 4879 million in 2032; it is expected to grow at a CAGR of 29.0% from 2026 to 2032.

Tabless Small Cylindrical Cells are small cylindrical lithium-ion cells using a tabless current-collection structure, designed to remove the limitations of discrete tabs and create a broader current path across the electrode edge, thereby improving high-rate output, thermal dissipation, and current distribution stability. Compared with conventional tab-type small cylindrical cells, their advantages lie in lower internal resistance, stronger discharge capability, better heat control, more stable cycle performance under high-load operation, and higher suitability for compact high-power battery packs. In 2025, production was approximately 415 million units and the average price was USD 2 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 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 cylindrical lithium-ion cells. The midstream segment focuses on tabless cell structure design, 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 power output, heat dissipation, cycle life, safety reliability, and cost competitiveness. Downstream, Tabless Small Cylindrical Cells are mainly used in power tools, portable energy storage, and data center backup batteries.

Tabless Small Cylindrical Cells stand out because their tabless current-collection

structure reduces current-path resistance and distributes current more evenly across the electrode edge. This gives the cell stronger high-rate discharge capability, faster heat spreading, lower internal resistance, and better stability under repeated high-load operation. For power tools, the advantage is instant high-current output and more durable performance during frequent start-stop use. For portable energy storage, it supports higher power release within a compact pack. For data center backup batteries, its value lies in stable pulse discharge, better consistency, and improved reliability during emergency power switching.

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

This Insight Report provides a comprehensive analysis of the global Tabless Small Cylindrical 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 Small Cylindrical Cells portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tabless Small Cylindrical Cells market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tabless Small Cylindrical 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 Small Cylindrical Cells.

This report presents a comprehensive overview, market shares, and growth opportunities of Tabless Small Cylindrical 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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