

Global 46 Series Large Cylindrical Battery Steel Cases Market Growth 2026-2032

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Abstracts

The global 46 Series Large Cylindrical Battery Steel Cases market size is predicted to grow from US\$ 70.43 million in 2025 to US\$ 205 million in 2032; it is expected to grow at a CAGR of 16.6% from 2026 to 2032.

46 Series Large Cylindrical Battery Steel Cases refer to steel or nickel-plated steel casing components specifically designed for 46-series large-format cylindrical lithium battery cells (typical diameter approximately 46mm, such as 4680, 4695, 46120). These steel cases house the electrode assembly, separator, and electrolyte, while providing mechanical support, sealing strength, impact resistance, thermal diffusion, and compatibility with automated assembly. They are cell-level precision structural components and do not include caps, safety vents, terminals, current collectors, or battery pack enclosures. The manufacturing of 46-series large cylindrical battery steel cases requires high technical precision, including strict control of deep drawing, wall thickness consistency, roundness, bottom forming, opening accuracy, plating stability, surface cleanliness, and compatibility with tall cell formats. These steel cases are key structural components for electric vehicle power batteries, high-energy-density energy storage, and selected high-power industrial battery applications. In 2025, the global shipment of 46 Series Large Cylindrical Battery Steel Cases is expected to reach approximately 600 million units, with an average unit price of approximately US\$0.12 and a gross margin of approximately 18%.

Large cylindrical battery steel casings are among the most technologically advanced sub-products in the power battery structural components sector. With the accelerated industrialization of large-size cylindrical batteries such as the 46 series, 4680, 4695, and 46120, cell casings have evolved from traditional stamped parts to high-precision structural components affecting cell safety, yield, heat dissipation, and automated

assembly efficiency. Compared to small cylindrical steel casings, large cylindrical battery steel casings have larger individual cell sizes, higher material strength requirements, and stricter casing consistency requirements, posing higher barriers to deep drawing, wall thickness control, roundness, bottom forming, nickel plating quality, and clean manufacturing.

From a market trend perspective, new energy vehicles represent the core growth market for large cylindrical battery steel casings. Power battery manufacturers and OEMs are driving the adoption of 46 series batteries, leading to simultaneous upgrades in supporting components such as steel casings, steel covers, current collectors, sealing rings, and safety structural parts. Compared to the mature small cylindrical steel casing market, the current shipment volume of large cylindrical steel casings is still in the ramp-up phase, but the value per unit is higher, the customer certification cycle is longer, and the technological barriers are stronger, resulting in more significant growth potential. As specifications such as 4680 and 4695 gradually move from sample verification, B-sample verification, and C-sample verification to large-scale supply, customer loyalty and first-mover advantage will become increasingly important for suppliers.

Industry competition will shift from simple capacity expansion to precision manufacturing capabilities, process consistency, and customer certification capabilities. Large cylindrical battery steel casing manufacturers need to possess high-precision mold development, deep drawing forming, pre-nickel plating or post-nickel plating processes, online testing, clean manufacturing, and stable batch delivery capabilities. In the future, companies that can enter the supply chains of leading power battery customers and simultaneously cover different height specifications such as 4680, 4695, and 46120 will gain greater bargaining power and stronger growth certainty in the large cylindrical battery steel casing market.

LP Information, Inc. (LPI) ' newest research report, the "46 Series Large Cylindrical Battery Steel Cases Industry Forecast" looks at past sales and reviews total world 46 Series Large Cylindrical Battery Steel Cases sales in 2025, providing a comprehensive analysis by region and market sector of projected 46 Series Large Cylindrical Battery Steel Cases sales for 2026 through 2032. With 46 Series Large Cylindrical Battery Steel Cases sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world 46 Series Large Cylindrical Battery Steel Cases industry.

This Insight Report provides a comprehensive analysis of the global 46 Series Large

Cylindrical Battery Steel Cases 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 46 Series Large Cylindrical Battery Steel Cases portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global 46 Series Large Cylindrical Battery Steel Cases market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for 46 Series Large Cylindrical Battery Steel Cases 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 46 Series Large Cylindrical Battery Steel Cases.

This report presents a comprehensive overview, market shares, and growth opportunities of 46 Series Large Cylindrical Battery Steel Cases market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4680

4695

46120

Others

Segmentation by Cell Height:

80mm

95mm

120mm

Others

Segmentation by Material:

Nickel-Plated Steel

High-Strength Thin-Wall Steel

Stainless Steel

Other Steel Materials

Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Sangsin EDP

Wuxi Jinyang Precision Manufacturing Co., Ltd.

Xinxiang Shengda Power Technology Co., Ltd.

Changzhou Wujin Zhongrui Electronic Technology Co., Ltd.

Shenzhen Kedali Industry Co., Ltd.

Ningbo Zhenyu Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global 46 Series Large Cylindrical Battery Steel Cases market?

What factors are driving 46 Series Large Cylindrical Battery Steel Cases market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do 46 Series Large Cylindrical Battery Steel Cases market opportunities vary by end market size?

How does 46 Series Large Cylindrical Battery Steel Cases break out by Type, by Application?

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