

Global 46 Series Large Cylindrical Battery Steel Cases Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 46 Series Large Cylindrical Battery Steel Cases market size is expected to reach \$ 205 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global 46 Series Large Cylindrical Battery Steel Cases production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 46 Series Large Cylindrical Battery Steel Cases and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 46 Series Large Cylindrical Battery Steel Cases that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 46 Series Large Cylindrical Battery Steel Cases total production and demand, 2021-2032, (K Units)

Global 46 Series Large Cylindrical Battery Steel Cases total production value, 2021-2032, (USD Million)

Global 46 Series Large Cylindrical Battery Steel Cases production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global 46 Series Large Cylindrical Battery Steel Cases consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: 46 Series Large Cylindrical Battery Steel Cases domestic production, consumption, key domestic manufacturers and share

Global 46 Series Large Cylindrical Battery Steel Cases production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global 46 Series Large Cylindrical Battery Steel Cases production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global 46 Series Large Cylindrical Battery Steel Cases production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global 46 Series Large Cylindrical Battery Steel Cases market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 46 Series Large Cylindrical Battery Steel Cases market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global 46 Series Large Cylindrical Battery Steel Cases Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 46 Series Large Cylindrical Battery Steel Cases Market, Segmentation by Type:

4680

4695

46120

Others

Global 46 Series Large Cylindrical Battery Steel Cases Market, Segmentation by Cell Height:

80mm

95mm

120mm

Others

Global 46 Series Large Cylindrical Battery Steel Cases Market, Segmentation by Material:

Nickel-Plated Steel

High-Strength Thin-Wall Steel

Stainless Steel

Other Steel Materials

Global 46 Series Large Cylindrical Battery Steel Cases Market, Segmentation by Application:

Electric Vehicles

Energy Storage Systems

Others

Companies Profiled:

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 Answered:

1. How big is the global 46 Series Large Cylindrical Battery Steel Cases market?
2. What is the demand of the global 46 Series Large Cylindrical Battery Steel Cases market?
3. What is the year over year growth of the global 46 Series Large Cylindrical Battery Steel Cases market?
4. What is the production and production value of the global 46 Series Large Cylindrical Battery Steel Cases market?
5. Who are the key producers in the global 46 Series Large Cylindrical Battery Steel Cases market?
6. What are the growth factors driving the market demand?

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