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Global Cylindrical Battery for Electric Vehicle Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/G0F7DC8028ACEN.html
Date: May 2025
Pages: 136
Price: US$ 3,480.00 (Single User License)
ID: G0F7DC8028ACEN

Abstracts

According to our (Global Info Research) latest study, the global Cylindrical Battery for Electric Vehicle market size was valued at US$ 15950 million in 2024 and is forecast to a readjusted size of USD 39270 million by 2031 with a CAGR of 11.7% during review period.

Cylindrical Battery for Electric Vehicle is providing driving force by consuming the power and it is installed in the electric vehicle. Electric vehicle battery pack designed for Electric Vehicles (EVs) is complex and vary widely by manufacturers and specific application. However, they all incorporate a combination of several simple mechanical and electrical component systems which perform the basic required functions of the pack.

Market Trends

Rising EV Sales:

The global EV market is experiencing rapid growth, with sales expected to accounting for more than one-fifth of global car sales.

China, Europe, and the United States are the largest markets for EVs, with China alone accounting for over 60% of global EV sales in recent years.

Battery Technology Advancements:

Cylindrical batteries, particularly those with large capacities, are becoming increasingly

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popular for mid and high-end EVs due to their superior energy density and performance.

Companies are investing heavily in research and development to improve battery chemistry, cell design, and manufacturing processes, which are driving down costs and increasing efficiency.

Government Policies:

Governments around the world are implementing policies to promote EV adoption, including purchase incentives, tax credits, and investments in charging infrastructure.

These policies are creating a favorable environment for the growth of the cylindrical battery market for EVs.

Challenges

Supply and Demand Imbalance:

The global battery market is facing a supply-demand imbalance, with production capacity expanding rapidly to meet the growing demand for EVs.

However, this imbalance has led to excess supply and competitive pricing in the market, which can be challenging for battery manufacturers.

Technical Challenges:

Cylindrical batteries face challenges in terms of safety, durability, and recycling.

Manufacturers are continuously working to improve battery safety and recycling processes to address these concerns.

Raw Material Prices:

The prices of battery metals such as lithium, cobalt, and nickel are volatile and can significantly impact the cost of cylindrical batteries.

This volatility can make it difficult for manufacturers to plan and manage their costs effectively.

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Opportunities

Expanding Markets:

As EV adoption rates continue to rise, there is significant potential for growth in emerging markets such as Southeast Asia and India.

These markets are supported by government policies and increasing consumer awareness of the benefits of EVs.

Technological Innovations:

Advances in battery technology, such as solid-state batteries and improved battery management systems, could further increase the appeal of cylindrical batteries for EVs.

These innovations could lead to higher energy densities, faster charging times, and longer lifespans for batteries.

Collaborative Efforts:

Partnerships between battery manufacturers, EV makers, and governments can help to accelerate the adoption of cylindrical batteries and overcome challenges in the market.

Collaborative efforts can lead to improved battery technology, reduced costs, and expanded infrastructure for EV charging.

In conclusion, the market for cylindrical batteries for electric vehicles is poised for significant growth due to rising EV sales, advancements in battery technology, and supportive government policies. However, challenges such as supply-demand imbalances, technical issues, and volatile raw material prices must be addressed to ensure sustainable growth in this market. Opportunities for expansion in emerging markets, technological innovations, and collaborative efforts present exciting prospects for the future of cylindrical batteries in the EV industry.

This report is a detailed and comprehensive analysis for global Cylindrical Battery for Electric Vehicle 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

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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 Cylindrical Battery for Electric Vehicle market size and forecasts, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2020-2031

Global Cylindrical Battery for Electric Vehicle market size and forecasts by region and country, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2020-2031

Global Cylindrical Battery for Electric Vehicle market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (MWh), and average selling prices (USD/KWh), 2020-2031

Global Cylindrical Battery for Electric Vehicle market shares of main players, shipments in revenue ($ Million), sales quantity (MWh), and ASP (USD/KWh), 2020-2025

The Primary Objectives in This Report Are:

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

To assess the growth potential for Cylindrical Battery for Electric Vehicle

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 Cylindrical Battery for Electric Vehicle 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 CATL, BYD, EVE, LG Energy Solution, Samsung SDI, REPT, Great Power, Gotion High-tech, Tesla, A123 Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Market Segmentation

Cylindrical Battery for Electric Vehicle market is split by Type and by Application. For the period 2020-2031, 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

18650 Battery

21700 Battery

4680 Battery

Others

Market segment by Application

Passenger Vehicle

Commercial Vehicle

Major players covered

CATL

BYD

EVE

LG Energy Solution

Samsung SDI

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REPT

Great Power

Gotion High-tech

Tesla

A123 Systems

Sunwoda Electronic

SVOLT

Farasis Energy

SK on

Envision AESC

Lishen

Saft

Panasonic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East

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& Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cylindrical Battery for Electric Vehicle product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cylindrical Battery for Electric Vehicle, with price, sales quantity, revenue, and global market share of Cylindrical Battery for Electric Vehicle from 2020 to 2025.

Chapter 3, the Cylindrical Battery for Electric Vehicle competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cylindrical Battery for Electric Vehicle breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Cylindrical Battery for Electric Vehicle market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cylindrical Battery for Electric Vehicle.

Chapter 14 and 15, to describe Cylindrical Battery for Electric Vehicle sales channel, distributors, customers, research findings and conclusion.

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