

Global 18650 Batteries Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G3D6EE9AB806EN.html>

Date: May 2025

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G3D6EE9AB806EN

Abstracts

According to our (Global Info Research) latest study, the global 18650 Batteries market size was valued at US\$ 12660 million in 2024 and is forecast to a readjusted size of USD 23590 million by 2031 with a CAGR of 7.8% during review period.

The 18650 battery is a lithium-ion cell classified by its 18mm x 65mm size, which is slightly larger than a AA battery.

Key Market Drivers

Rising Demand from EVs: The increasing adoption of electric vehicles is a major driver of 18650 battery demand. Many automakers are incorporating 18650 batteries into their electric vehicle models.

Consumer Electronics: The continuous upgrade of consumer electronics such as smartphones and laptops also supports stable demand for 18650 batteries.

Emerging Markets: The rapid development of emerging markets like smart home devices and Internet of Things (IoT) products is further expanding the application scenarios for 18650 batteries.

Market Challenges

Material Price Volatility: Fluctuations in the prices of key materials such as lithium, cobalt, and nickel can affect battery production costs and market supply-demand balance.

Environmental Impact: Improving recycling rates and reducing pollution during production and recycling are urgent issues for the industry.

Competitive Pressures: As the market matures, more companies are entering the lithium battery sector, intensifying competition.

Market Trends

Technological Innovation: Advances in materials and technologies, such as silicon anodes and solid-state batteries, are enhancing the energy density of 18650 batteries.

Fast Charging Technology: Significant progress has been made in fast-charging technology, allowing some 18650 batteries to be fully charged in a short time.

Safety Enhancements: Modern 18650 batteries incorporate multiple safety mechanisms, such as overvoltage protection, overheat protection, and short-circuit protection, to reduce the risk of accidents.

Future Directions

Solid-State Batteries: The development of solid-state batteries is expected to address the safety and energy density issues of traditional lithium batteries, serving as an important alternative technology for 18650 batteries.

Intelligent Management: The integration of artificial intelligence and big data technology for intelligent monitoring and management of batteries will significantly improve the safety and efficiency of 18650 battery use.

Circular Economy: Strengthening the recycling of 18650 batteries and promoting the development of a circular economy will reduce resource waste and enhance corporate social responsibility.

In conclusion, the market for 18650 batteries is poised for significant growth driven by rising demand from electric vehicles, consumer electronics, and emerging markets. However, the industry faces challenges such as material price volatility, environmental impact, and competitive pressures. Despite these challenges, technological innovations, fast charging technology, and safety enhancements are shaping the future of the 18650 battery market.

This report is a detailed and comprehensive analysis for global 18650 Batteries 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 18650 Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (US\$/KWh), 2020-2031

Global 18650 Batteries market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (US\$/KWh), 2020-2031

Global 18650 Batteries market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MWh), and average selling prices (US\$/KWh), 2020-2031

Global 18650 Batteries market shares of main players, shipments in revenue (\$ Million), sales quantity (MWh), and ASP (US\$/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 18650 Batteries

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 18650 Batteries 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 Panasonic, LG, Samsung, CATL, BYD, EVE, A123 Systems, Sunwoda Electronic, REPT, Great Power, etc.

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

Market Segmentation

18650 Batteries 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

NCx

LFP

Others

Market segment by Application

Power Banks

Laptops

Electric Vehicles

Flashlights

Others

Major players covered

Panasonic

LG

Samsung

CATL

BYD

EVE

A123 Systems

Sunwoda Electronic

REPT

Great Power

Gotion High-tech

Farasis Energy

SK on

Lishen

Murata

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 & Africa)

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

Chapter 1, to describe 18650 Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 18650 Batteries, with price, sales quantity, revenue, and global market share of 18650 Batteries from 2020 to 2025.

Chapter 3, the 18650 Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 18650 Batteries 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 18650 Batteries 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 18650 Batteries.

Chapter 14 and 15, to describe 18650 Batteries sales channel, distributors, customers, research findings and conclusion.

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