

Global Lithium Metal Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Lithium Metal Battery market size was valued at US\$ 105 million in 2023 and is forecast to a readjusted size of USD 769 million by 2030 with a CAGR of 34.2% during review period.

Lithium metal batteries (LMBs) represent a class of battery technologies that utilize lithium metal as the anode material instead of the carbon-based materials commonly used in traditional lithium-ion batteries, e.g. Lithium Sulfur Battery. This design allows LMBs to achieve significantly higher energy densities, making them attractive for various applications, including portable electronics, electric vehicles, and renewable energy storage.

Lithium Metal Battery Market Drivers

High Energy Density: LMBs can achieve energy densities significantly higher than those of traditional lithium-ion batteries. This makes them particularly attractive for applications requiring extended range and performance, such as electric vehicles (EVs) and portable electronics.

Demand for Electric Vehicles (EVs): The global push towards electrification of the automotive industry is a major driver for LMBs, as manufacturers seek batteries with higher capacities to enhance vehicle range and reduce charging frequency.

Advancements in Technology: Ongoing research and development efforts are improving the safety, efficiency, and lifecycle of LMBs. Innovations such as solid-state electrolytes and advanced manufacturing techniques are making LMBs more viable for commercial applications.

Environmental Concerns: The increasing demand for cleaner energy solutions has heightened interest in batteries that can store renewable energy more efficiently. LMBs, with their potential for higher efficiency and lower weight, are positioned well to meet

these needs.

Government Policies and Incentives: Many governments worldwide are offering incentives for the adoption of EVs and renewable energy sources, which indirectly boosts the demand for advanced battery technologies like LMBs.

Energy Storage Systems: The growing need for efficient energy storage solutions in various sectors, including renewable energy (solar and wind), is driving the exploration and adoption of LMBs.

Lithium Metal Battery Market Restraints

Safety Concerns: The use of lithium metal as an anode can lead to the formation of lithium dendrites during charging, which poses risks such as short-circuiting and thermal runaway. This safety issue is a significant concern that hampers wider adoption.

Cost of Production: Currently, the manufacturing processes for lithium metal batteries can be more expensive compared to traditional lithium-ion batteries. High production costs can deter manufacturers and affect the overall market growth.

Limited Cycle Life: Although LMBs exhibit high energy density, they may struggle with cycle stability and longevity compared to more established technologies. Addressing these limitations is crucial for commercial viability.

Raw Material Availability: The supply chain for critical materials used in lithium metal batteries (such as lithium and other components) can be volatile, affecting pricing and availability, which may lead to market fluctuations.

Regulatory Challenges: Regulatory standards concerning battery safety, recycling, and disposal could pose challenges for the immediate deployment of lithium metal battery technology on a larger scale.

This report is a detailed and comprehensive analysis for global Lithium Metal Battery 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 2024, are provided.

Key Features:

Global Lithium Metal Battery market size and forecasts, in consumption value (\$ Million), sales quantity (million Ah), and average selling prices (USD/Ah), 2019-2030
Global Lithium Metal Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (million Ah), and average selling prices (USD/Ah), 2019-2030

Global Lithium Metal Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (million Ah), and average selling prices (USD/Ah), 2019-2030

Global Lithium Metal Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (million Ah), and ASP (USD/Ah), 2019-2024

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 Lithium Metal Battery

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 Lithium Metal Battery 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 SES AI, LG Energy, MaxAmps, Vanguard, QuantumScape, Lyten, PolyPlus, Guangzhou Great Power, Shenzhen Inx Energy Technology, Monta Vista Energy Technology Corporation(Anhui), etc.

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

Market Segmentation

Lithium Metal Battery market is split by Type and by Application. For the period 2019-2030, 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

- Below 400Wh/kg
- Above 400Wh/kg

Market segment by Application

- EVs
- Low-altitude Aircraft (Drone, eVTOL etc)
- Consumer Electronics
- Energy Storage
- Others

Major players covered

- SES AI
- LG Energy
- MaxAmps
- Vanguard
- QuantumScape
- Lyten
- PolyPlus
- Guangzhou Great Power
- Shenzhen Inx Energy Technology
- Monta Vista Energy Technology Corporation(Anhui)
- Zhejiang Jinyu New Energy Technology

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 Lithium Metal Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium Metal Battery, with price, sales quantity, revenue, and global market share of Lithium Metal Battery from 2019 to 2024.

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

Chapter 4, the Lithium Metal Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Lithium Metal Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Lithium Metal Battery.

Chapter 14 and 15, to describe Lithium Metal Battery sales channel, distributors, customers, research findings and conclusion.

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