

Lithium-Metal-Polymer (LMP) Battery Market - Global Outlook and Forecast 2022-2028

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Abstracts

A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. Lithium Solid-State Battery have a simpler structure than the traditional LiBs, and the simplified structure with a solid electrolyte enables higher energy density. Solid electrolytes not only conduct Li⁺ ions but also serve as the separator, as shown in Figure below. In Lithium Solid-State Battery, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of Lithium Solid-State Battery is no different from the traditional LiBs. In the charge process, lithium ions deintercalate from the cathode material and transport to the anode through the electrolyte, while electrons drift to the anode by the external circuit. Lithium ions combine with electrons to form more complete lithium atoms. The discharge process is just the reverse.

This report contains market size and forecasts of Lithium-Metal-Polymer (LMP) Battery in global, including the following market information:

Global Lithium-Metal-Polymer (LMP) Battery Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Lithium-Metal-Polymer (LMP) Battery Market Sales, 2017-2022, 2023-2028, (MW)

Global top five Lithium-Metal-Polymer (LMP) Battery companies in 2021 (%)

The global Lithium-Metal-Polymer (LMP) Battery market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast

period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Polymer-Based Lithium Solid-State Battery Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Lithium-Metal-Polymer (LMP) Battery include Bollore, Toyota, Panasonic, Jiawei, Bosch, Quantum Scape, BMW, Hyundai and Dyson, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Lithium-Metal-Polymer (LMP) Battery manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Lithium-Metal-Polymer (LMP) Battery Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Lithium-Metal-Polymer (LMP) Battery Market Segment Percentages, by Type, 2021 (%)

Polymer-Based Lithium Solid-State Battery

Lithium Solid-State Battery with Inorganic Solid Electrolytes

Global Lithium-Metal-Polymer (LMP) Battery Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Lithium-Metal-Polymer (LMP) Battery Market Segment Percentages, by Application, 2021 (%)

Consumer Electronics

Electric Vehicle

Aerospace

Others

Global Lithium-Metal-Polymer (LMP) Battery Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (MW)

Global Lithium-Metal-Polymer (LMP) Battery Market Segment Percentages, By Region
and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Lithium-Metal-Polymer (LMP) Battery revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Lithium-Metal-Polymer (LMP) Battery revenues share in global market, 2021 (%)

Key companies Lithium-Metal-Polymer (LMP) Battery sales in global market, 2017-2022 (Estimated), (MW)

Key companies Lithium-Metal-Polymer (LMP) Battery sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Bolloré

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

BMW

Hyundai

Dyson

Apple

CATL

Iluka

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

Front Edge Technology

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