

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Solid State Batteries Market 2018, Forecast to 2023

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Abstracts

Chemical energy storage, including lead acid batteries, nickel system batteries, and lithium ion batteries (LiBs), is considered to be the most promising energy storage technology for industrialization. Among these, LiBs have many advantages such as light weight, high energy density, high power density, and long life, and they are overwhelmingly preferred by designers for use in portable electronic devices such as cell phones and laptops. However, overcharging or short-circuiting can lead to high temperature and result in fire or explosion due to the presence of flammable organic electrolytes. Fires and explosions of LiBs have been reported throughout the world. The developments of electric vehicles (EVs) and large-scale energy storage devices for new kinds of power stations greatly expand the market for LiBs, meanwhile, stricter safety requirements apply to LiBs. Since large numbers of LiBs are packed together in EVs or power stations, fire or explosion in an LiB could be disastrous. Safety has become the main obstacle for the wide application of LiBs. To meet this issue, solid state batteries have entered the field.

A solid state battery is composed mainly of cathode, anode, and solid electrolyte, as developed during the latter half of the 20th century. Solid state batteries 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 solid state batteries, no organic liquid electrolyte, electrolyte salt, separator, or binder is required, which dramatically simplifies the assembly process. The operational principle of solid state batteries 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.

Scope of the Report:

This report focuses on the Solid State Batteries in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Although Solid State Batteries based on inorganic solid electrolytes have clearly demonstrated their great possibilities for electric vehicles and large-scale energy storage systems, further development is still required to improve their energy density, rate capability, and cycling stability, while ensuring excellent safety. Actually, they are still far from being commercialized for industrial applications, which require systematical studies and will be a complicated process.

Making Solid State Batteries usable outside the laboratory involves multiple factors such as solid electrolytes, electrodes, interface properties, and construction design. The high cost and very small production scale of solid state electrolytes with high ionic conductivity hinder the application of Solid State Batteries. Meanwhile, Solid State Batteries still suffer from inferior power density and poor cycle life, due to the high transfer resistance of lithium ions between the electrodes and solid electrolytes. Thus, at this stage, the direction for research exploring Solid State Batteries for commercial applications is to develop new cathodes based on the conversion reaction mechanism with low or even zero strain and energy levels well matched with the electrolytes. All of these together are expected to yield new material systems with high capacity. In addition, the use of lithium metal in anodes will be another thrust of Solid State Batteries development. Another is the design of novel SEs with high lithium-ion conductivity at room temperature and wide electrochemical window. Meanwhile, future SEs should show excellent chemical stability in the presence of metallic lithium. Also, new methods should be proposed to reduce the interfacial resistance between the electrode and electrolyte. Finally, the optimal combination of different fabrication processes and equipment automation as well as device design are necessary for the realization of Solid State Batteries with high capacity, low cost, and high yield.

In summary, scientific and technical research on Solid State Batteries is progressing gradually. The current achievements indicate that Solid State Batteries with high energy density are promising candidates for large-scale energy storage and even electric vehicle applications

The worldwide market for Solid State Batteries is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million

US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

BMW

Hyundai

Dyson

Apple

CATL

Bolloré

Toyota

Panasonic

Jiawei

Bosch

Quantum Scape

Ilika

Excellatron Solid State

Cymbet

Solid Power

Mitsui Kinzoku

Samsung

ProLogium

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Polymer-Based Solid State Batteries

Solid State Batteries with Inorganic Solid Electrolytes

Market Segment by Applications, can be divided into

Home Consumers

Health Clubs / Gym

Hotel Gym

Medical Centers / Hospitals

Others

There are 15 Chapters to deeply display the global Solid State Batteries market. Chapter 1, to describe Solid State Batteries Introduction, product scope, market overview, market opportunities, market risk, market driving force; Chapter 2, to analyze the top manufacturers of Solid State Batteries, with sales,

revenue, and price of Solid State Batteries, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Solid State Batteries, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Solid State Batteries market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Solid State Batteries sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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