

Solid State Battery Market by Type (Thin-film Battery and Portable Battery), Capacity (Less than 20 mAh, Between 20 mAh and 500 mAh, and 500 mAh and above), and Application (Consumer and Portable Electronics, Electric Vehicle, Energy Harvesting, Wearable and Medical Devices, and Others): Global Opportunity Analysis and Industry Forecast, 2018 - 2025

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Abstracts

Solid State Battery Market Overview:

Solid state battery is a technology, which utilizes both solid electrodes and solid electrolytes. It is an ideal substitute of conventional lithium-ion battery. It is comparatively smaller and cheaper as compared to current liquid-based lithium-ion batteries. Also, the current lithium-ion batteries are flammable and create a lot of heat. Getting rid of the liquid electrolyte used in today's lithium-ion batteries results in higher energy density, faster charging times, and lesser need for battery cooling. Thus, manufacturers focus on developing and using batteries containing solid electrolyte to prevent leakage and attain higher energy density and faster charging time. In 2014, Sakti3 announced the production of a battery, which are expected to feature twice the density as compared to conventional batteries, and are cost-effective. Several other industry giants have also started developing solid state batteries that can be used for different applications. Volkswagen has made a major investment in California solid-state battery startup QuantumScape, to begin production of solid-state batteries for electric vehicle by 2025.

Increase in application of solid state batteries in the electric vehicle, healthcare, wearable, and drone sectors drives the growth of the global solid state battery market. Moreover, rise in need for solid state batteries in electric vehicle boosts the market growth. However, complex manufacturing process and high cost of solid state batteries restrain the market growth. Conversely, increase in investment in the market, by industry giants such as Samsung and Hyundai is anticipated to offer future growth opportunities for the market.

The global solid state battery market is segmented based on type, capacity, application, and region. Based on type, the market is bifurcated into thin film and portable battery. By capacity, the market is divided into less than 20 mAh, between 20 mAh & 500 mAh, and 500 mAh & above capacity batteries. Depending on application, it is fragmented into consumer & portable electronics, electric vehicle, energy harvesting, wearable & medical devices, and others. Based on region, the global solid state battery market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The major key players operating in the global solid state battery market include Cymbet Corporation, Seeo Inc. (Robert Bosch GmbH subsidiary), StmicroElectronics N.V., Toyota Motor Corporation, Sakti3 Inc. (Dyson Ltd subsidiary), and Brightvolt, Inc. The other key players include Excellatron Solid State, LLC, Infinite Power Solution, Inc., Planar Energy Devices, Inc., QuantumEscape, Altairnano, and Solid Power, Inc.

Key Benefits for Solid State Battery Market:

Porter's five forces analysis helps analyze the potential of buyers and suppliers and the competitive scenario of the industry for strategy building.

This report outlines the current trends and future scenario of the solid state battery market from 2018 to 2025 to understand the prevailing opportunities and potential investment pockets.

Major countries in each region are mapped according to their individual revenue contribution to the global/regional market.

The key drivers, restraints, and opportunities and their detailed impact analyses are elucidated in the study.

The profiles of the key players along with their key strategic developments are enlisted in the report.

Solid State Battery Key Market Segments:

By Type

Thin-film

Portable

By Capacity

Less than 20 mAh

Between 20 mAh and 500 mAh

500 mAh and above

By Application

Consumer and Portable Electronics

Electric Vehicle

Energy Harvesting

Wearable and Medical Devices

Others

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Spain

Russia

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

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