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Global Space Battery Market 2023-2029

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Abstracts

Space batteries are used to power a wide range of spacecraft, satellites, and other space-based technologies, and must be able to withstand extreme temperatures, radiation, and vacuum conditions. Space batteries are typically rechargeable and use a variety of chemistries, including nickel-cadmium, nickel-hydrogen, and lithium-ion. The specific chemistry used depends on the requirements of the mission, such as power output, weight, and lifespan. According to the latest estimates, the global space battery market is set to achieve an incremental growth of USD 81.0 million, accelerating at a CAGR of almost 4.35% during the forecast period 2023-2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global space battery market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the orbit type, material, platform, energy type, function, application, and region. The global market for space battery can be segmented by orbit type: low earth orbit (LEO), medium earth orbit (MEO), geosynchronous orbit (GEO), others. The low earth orbit (LEO) segment is estimated to account for the largest share of the global space battery market. Space battery market is further segmented by material: nickel-based battery, lithium-based battery, silver-zinc battery, others. The lithium-based battery segment held the largest revenue share in 2022. Based on platform, the space battery market is segmented into: communication, earth observation, military surveillance, science, navigation, others. Globally, the communication segment made up the largest share of the space battery market. On the basis of energy type, the space battery market also can be divided into: less than 100

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Wh/kg, 100–150 Wh/kg, more than 150 Wh/kg. The 100–150 Wh/kg segment was the largest contributor to the global space battery market in 2022. Space battery market by function is categorized into: primary battery, secondary battery. The secondary battery segment is estimated to account for the largest share of the global space battery market. The space battery market by application can be segmented into: satellite, launch vehicle, others. The satellite segment held the largest revenue share in 2022. Based on region, the space battery market is further categorized into: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America.

Market Segmentation
By orbit type: low earth orbit (LEO), medium earth orbit (MEO), geosynchronous orbit (GEO), others
By material: nickel-based battery, lithium-based battery, silver-zinc battery, others
By platform: communication, earth observation, military surveillance, science, navigation, others
By energy type: less than 100 Wh/kg, 100–150 Wh/kg, more than 150 Wh/kg
By function: primary battery, secondary battery
By application: satellite, launch vehicle, others
By region: Asia-Pacific, Europe, North America, Middle East and Africa (MEA), South America

The market research report covers the analysis of key stake holders of the global space battery market. Some of the leading players profiled in the report include Eagle-Picher Technologies LLC, Saft Groupe SA, EnerSys, GS Yuasa Corporation, Arotech Corporation, Mitsubishi Electric Corporation, Redwire Corporation, Hitachi Ltd., Space Vector Corporation, AAC Clyde Space AB, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
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Scope of the Report
To analyze and forecast the market size of the global space battery market.
To classify and forecast the global space battery market based on orbit type, material, platform, energy type, function, application, region.
To identify drivers and challenges for the global space battery market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global space battery market.
To identify and analyze the profile of leading players operating in the global space battery market.

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Why Choose This Report

Gain a reliable outlook of the global space battery market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

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Military surveillance
Science
Navigation
Others

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Less than 100 Wh/kg
100–150 Wh/kg
More than 150 Wh/kg

PART 9. MARKET BREAKDOWN BY FUNCTION

Primary battery
Secondary battery

PART 10. MARKET BREAKDOWN BY APPLICATION

Satellite
Launch vehicle
Others

PART 11. MARKET BREAKDOWN BY REGION

Asia-Pacific
Europe
North America
Middle East and Africa (MEA)
South America

PART 12. KEY COMPANIES

Eagle-Picher Technologies LLC
Saft Groupe SA
EnerSys
GS Yuasa Corporation
Arotech Corporation
Mitsubishi Electric Corporation
Redwire Corporation

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Hitachi Ltd.
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