

Japan Automotive Lead Acid Battery Market Assessment, By Vehicle Type [Passenger Car, Three-Wheeler, Two-Wheeler, Light Commercial Vehicle, Medium and Heavy Commercial Vehicle], By Battery Capacity [Up to 20Ah, 20-50Ah, Above 50Ah], By Sales Channel [Original Equipment Manufacturer, Aftermarket], By Region, Opportunities and Forecast, FY2018-FY2032F

Market Report | 2024-11-27 | 129 pages | Market Xcel - Markets and Data

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Report description:

Japan automotive lead acid battery market is projected to witness a CAGR of 1.51% during the forecast period FY2025-FY2032, growing from USD 1.96 billion in FY2024 to USD 2.21 billion in FY2032. The market is witnessing significant growth owing to the increasing shift toward electric vehicles, increased vehicle ownership exponentially, the easily accessible variety of lead acid batteries, and significant technological advancements. Other factors driving the demand for Japan automotive lead acid battery market are government incentives for green practices and energy efficiency, continuous development of innovative lead acid battery technologies, rapid urbanization, and rising awareness concerning the sustainable environment. In addition, the demand for automotive lead acid batteries in Japan is growing because these are generally less expensive than advanced battery technologies, including lithium-ion, and have been a standard in automotive applications for decades. Although Japan is a key manufacturer of electric and hybrid vehicles, most automobiles use traditional internal combustion engines, whose ignition depends on lead acid batteries. With the increase of hybrid vehicles, the demand for automotive lead acid batteries is rising due to their auxiliary feature, which provides a better driving experience. Furthermore, the Japanese government has stringent rules and regulations for battery recycling, which confirms that lead acid batteries are properly disposed of and recycled. This regulatory environment supports the continued usage of lead acid batteries in various vehicles as they are less of an environmental burden when managed appropriately.

Additionally, the companies in Japan automotive lead acid battery market are investing in different research and development activities to advance and enhance vehicle features. Also, companies are planning to launch vehicles in Japan with the integration

of automotive lead acid batteries to address the rising demand for sustainable transportation and contribute to net zero carbon emissions.

For instance, in April 2024, GS Yuasa Corporation, a leading Japanese company, announced the relaunch of its ECO.R HV auxiliary VRLA battery series, designed specifically for Toyota hybrid vehicles.

Vehicle Ownership and Fleet Expansion to Drive Market Growth

Japan automotive lead acid battery market is witnessing steady growth due to increased vehicle ownership and fleet expansion. Companies and businesses are expanding their vehicle fleets for delivery, logistics, and transportation services, further propelling the requirement for reliable and advanced automotive lead acid batteries. In addition, the dependency on personal vehicles is higher in rural and suburban locations, as transportation choices are restricted, leading to increased battery demand. Manufacturers of automotive lead acid batteries are introducing and offering advanced automotive lead acid batteries to offer an overall better driving experience.

Technological Advancements to Propel Japan Automotive Lead Acid Battery Market Demand

Companies in the market are advancing the automotive lead acid battery technology to enhance performance and longevity, making them more attractive to consumers and businesses, propelling the demand for Japan automotive lead acid battery market in the forecast period. Innovations in automotive lead acid battery design, including improved electrolyte formulations, result in batteries that offer better performance, increased reliability, and longer life. Also, advanced automotive lead acid batteries with maintenance-free features are obtaining popularity, decreasing the requirement for maintenance and making them more convenient for vehicle owners, fostering the growth of Japan automotive lead acid batteries to address previous performance limitations and align with rising environmental and convenience considerations, propelling positive market growth in Japan for automotive lead acid batteries.

For instance, in October 2022, Japan's Toyota Motor Corporation and the domestic power utility giant JERA Group announced the commissioning of a second-life battery storage system that incorporates lithium-ion, nickel-metal-hydride, and lead acid chemistries.

Government Rules and Regulations to Drive Japan Automotives Lead Acid Battery Market Growth

The Japanese government forms stringent environmental regulations and robust recycling campaigns, propelling the growth of the market. The government introduced comprehensive recycling laws to ensure that automotive lead acid batteries are properly recycled, which reduces environmental impact and supports a sustainable market for these batteries. In addition, government initiatives often comprise logistic and financial incentives for the proper disposal and recycling of automotive lead acid batteries. This reduced the overall cost and encouraged more consumers and businesses to recycle and replace batteries responsibly. The supportive regulatory framework confirms environmental responsibility and strengthens consumer confidence in automotive lead acid batteries, acid batteries, supporting steady market growth in the forecast period.

For instance, in September 2024, the Japanese government announced subsidies of USD 2.4 billion to support electric vehicle battery projects of domestic manufacturers to ramp up the production of annual batteries and foster electrification efforts. 20-50Ah Batteries to Dominate Japan Automotive Lead Acid Battery Market Share

The 20-50Ah segment dominates the largest market share in Japan automotive lead acid battery market owing to the continuous prevalence of internal combustion engine vehicles and the rapid trend of personalization. 20-50Ah battery range is significant for ICE vehicles, ensuring reliable operation and powering the electrical systems. Although, the rising demand for electric and hybrid vehicles, along with the significant rise in the share of ICE vehicles in Japan, maintains a robust demand for a 20-50Ah battery range. In addition, companies are innovating battery design, including improved configurations, which have resulted in batteries that offer longer service life and better performance, fostering the growth of Japan 20-50Ah automotive lead acid battery market in the forecast period.

Passenger Cars to Hold the Significant Japan Automotive Lead Acid Battery Market Share

Passenger cars are projected to hold the dominating share of the Japanese market owing to the cost-effectiveness of automotive lead acid batteries and their effectiveness in powering the electrical systems of passenger cars. The easy affordability of automotive lead acid batteries for integration in passenger cars makes it a practical choice for many car owners, especially for replacement or budget-conscious applications. In addition, the demand for Japan passenger car market is rising owing to

technological advancements and an increase in disposable income, which further drives the requirement for automotive lead acid batteries, offering sufficient power for the starting, lighting, and ignition functions in conventional passenger cars. Future Market Scenario (FY2025 - FY2032F)

-[An increase in sales of electric vehicles and expansion in electronic applications within passenger vehicles are projected to propel the growth of Japan automotive lead acid battery market.

- Easy accessibility of online purchasing for automotive products, including automotive lead acid batteries, supports market expansion in the forecast period.

-[Growing vehicle ownership and rapid urbanization, coupled with industrialization, are leading the market growth for automotive lead acid batteries.

-[Technological advancements to enhance durability and reduce maintenance demand are fostering the growth of the automotive lead acid battery market in Japan.

Key Players Landscape and Outlook

Companies in Japan automotive lead acid battery market are efficiently investing in different research and development activities to enhance the functioning of automotive lead acid batteries and strengthen their market position in the country and globally. Key participants in the Japanese market specialize in manufacturing plants for different types of automotive lead acid batteries and ensure that batteries meet the required specifications and standards. In addition, companies adjust their market growth strategies, including joint ventures, new product launches, amalgamation, partnerships, and others, to address the rising demand for automotive lead acid batteries and strengthen their market presence.

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