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Automotive Lead-Acid Battery Market Report by Vehicle Type (Passenger Cars, Commercial Vehicles, Two-Wheelers, HEV Cars), Product (SLI Batteries, Micro Hybrid Batteries), Type (Flooded Batteries, Enhanced Flooded Batteries, VRLA Batteries), Customer Segment (OEM, Replacement), and Region 2024-2032

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Abstracts

The global automotive lead-acid battery market size reached US$ 13.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 16.3 Billion by 2032, exhibiting a growth rate (CAGR) of 2.2% during 2024-2032. The stringent government regulations aimed at reducing emissions, rising demand for automobiles, the adoption of electric and hybrid vehicles, and rapid technological advancements are some of the factors propelling the market.

Lead-acid batteries consist of lead dioxide plates immersed in a sulfuric acid electrolyte, making them a cost-effective energy storage solution. One of their key advantages is their robustness, making them suitable for various automotive applications, including starter and deep-cycle batteries. Starter lead-acid batteries deliver high bursts of power, making them ideal for igniting the engine, while deep-cycle lead-acid batteries offer a steady, prolonged power supply, perfect for supporting auxiliary systems. In addition to their versatility, lead-acid batteries are known for their relatively low production costs and recyclability. Moreover, lead-acid batteries can be recycled efficiently, aiding in reducing the environmental impact and promoting sustainability.

The global automotive lead-acid battery market is influenced by the rising demand for automobiles and the escalating need for reliable and affordable battery solutions.

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Moreover, the increasing adoption of electric and hybrid vehicles (H/EVs) drive the demand for lead-acid batteries as they serve as a cost-effective energy storage solution for these vehicles, which, in turn, is supporting the market growth. Apart from this, government regulations and initiatives promoting sustainable transportation and environmental conservation encourage the use of lead-acid batteries as an eco-friendly alternative, further augmenting the market growth. Besides this, the robust aftermarket for automotive batteries, driven by replacement and maintenance requirements, is also propelling the market forward. Other factors, such as advancements in battery technology and manufacturing processes, are fueling the market growth.

Automotive Lead-Acid Battery Market Trends/Drivers:
Rising demand for automobiles

The automotive lead-acid battery market is experiencing a significant boost due to the ever-increasing demand for automobiles worldwide. As economies grow, consumers' purchasing power rises, leading to higher vehicle ownership rates, particularly in emerging markets. Lead-acid batteries serve as the conventional and cost-effective energy storage solution for internal combustion engine vehicles (ICEV), which still dominate the global automotive market. These batteries power various automotive systems, including starting, lighting, and ignition, making them an integral component of traditional vehicles. The rise in automotive production and sales drives a parallel increase in the demand for lead-acid batteries, making them indispensable in powering the ever-growing automotive fleet.

Adoption of electric and hybrid vehicles

The shift towards sustainable transportation solutions drives the demand for lead-acid batteries in H/EVs. Lead-acid batteries offer a more affordable energy storage option compared to their lithium-ion counterparts, making them an attractive choice for certain EV and HEV applications. In regions where cost remains a crucial consideration for consumers, lead-acid batteries find usage in micro-hybrid and mild-hybrid vehicles, which combine internal combustion engines with electric powertrains. Additionally, lead-acid batteries are utilized in auxiliary systems in electric vehicles, supporting functions like lighting and climate control. As governments worldwide encourage the adoption of greener transportation, lead-acid batteries continue to play a vital role in enabling the electrification of the automotive industry.

Government regulations and environmental initiatives

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Government regulations and environmental initiatives aimed at reducing emissions and promoting sustainable transportation impact the automotive lead-acid battery market. Governments worldwide implement stringent emission standards to combat air pollution and climate change, pushing automotive manufacturers to develop more fuel-efficient and eco-friendly vehicles. As a result, the demand for electric and hybrid vehicles increases, leading to a surge in lead-acid battery adoption. Moreover, some countries offer incentives and subsidies to promote the use of green vehicles, further driving the market's growth. Additionally, the recycling and sustainability aspects of lead-acid batteries align with circular economy principles, making them a preferred choice in regions emphasizing eco-friendly practices. The convergence of government regulations and environmental awareness acts as a catalyst for the expanding market share of lead-acid batteries in the automotive industry.

Automotive Exhaust System Industry Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global automotive lead-acid battery market report, along with forecasts at the global and regional levels from 2024-2032. Our report has categorized the market based on the vehicle type, product, type, and customer segment.

Breakup by Vehicle Type:

Passenger Cars
Commercial Vehicles
Two-Wheelers
HEV Cars

Commercial vehicles dominate the market

The report has provided a detailed breakup and analysis of the market based on the vehicle type. This includes passenger cars, commercial vehicles, two-wheelers, and HEV cars. According to the report, commercial vehicles represented the largest segment.

The commercial vehicles segment dominates the automotive lead-acid battery market due to the high demand for commercial vehicles, including trucks, buses, and delivery vans, for logistics and transportation purposes. Commercial vehicles rely on lead-acid batteries to power various systems, such as engine starting, lighting, and air conditioning, making these batteries indispensable for their operation. Additionally, the commercial vehicle industry's extensive aftermarket generates substantial replacement

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and maintenance demand for lead-acid batteries, driving continuous sales. Moreover, cost considerations play a crucial role in this segment, as lead-acid batteries offer a more affordable energy storage solution compared to alternative battery technologies like lithium-ion. In line with this, the robustness and reliability of lead-acid batteries make them suitable for the demanding operating conditions of commercial vehicles, ensuring consistent performance even in challenging environments.

Breakup by Product:

SLI Batteries
Micro Hybrid Batteries

SLI batteries hold the largest share in the market

A detailed breakup and analysis of the market based on the product has also been provided in the report. This includes SLI batteries and micro hybrid batteries. According to the report, SLI batteries represented the largest segment.

The SLI (starting, lighting, and ignition) batteries segment dominates the automotive lead-acid battery market as they serve as the primary power source for starting the internal combustion engines in conventional vehicles. These batteries provide the high cranking currents required to start the engine reliably. Additionally, SLI batteries are more affordable than their counterparts, making them the preferred choice in regions where cost remains a crucial factor for consumers. While the adoption of electric and hybrid vehicles is growing, the majority of vehicles on the road still rely on internal combustion engines, sustaining the demand for SLI batteries. Moreover, SLI batteries find application in auxiliary systems, such as lighting and ignition, further expanding their usage. The established presence of SLI batteries in the automotive sector, coupled with their cost-effectiveness and adaptability, positions them as the dominant segment in the market.

Breakup by Type:

Flooded Batteries
Enhanced Flooded Batteries
VRLA Batteries

Flooded batteries dominate the market

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The report has provided a detailed breakup and analysis of the market based on the type. This includes flooded batteries, enhanced flooded batteries, and VRLA batteries. According to the report, flooded batteries represented the largest segment.

The flooded batteries segment dominates the automotive lead-acid battery market as they have a long-established presence in the automotive industry, making them a trusted and proven energy storage solution. Automotive manufacturers have relied on flooded batteries for decades, and their reliability and performance have earned the trust of consumers and OEMs alike. Additionally, they offer a cost-effective option for vehicle owners and manufacturers. Compared to other types of lead-acid batteries, flooded batteries have a lower initial cost, making them more accessible for a wide range of vehicles, especially in the mass-market segment. They also excel in providing high cranking power, making them ideal for starting internal combustion engine vehicles. Their ability to deliver robust current bursts ensures reliable engine ignition, especially in harsh weather conditions. Moreover, the flooded batteries' design allows for easy maintenance and serviceability, as they can be topped up with distilled water, prolonging their lifespan and reducing overall operational costs.

Breakup by Customer Segment:

OEM
Replacement

OEM holds the largest share in the market

A detailed breakup and analysis of the market based on the customer segment has also been provided in the report. This includes OEM and replacement. According to the report, OEM accounted for the largest market share.

The original equipment manufacturer (OEM) segment dominates the automotive lead-acid battery market as they are the primary suppliers of batteries to vehicle manufacturers during the production process. As a result, they benefit from long-term contracts, high-volume orders, and preferred supplier status, giving them a substantial market share. The automotive manufacturers prefer to source batteries from OEMs due to their established reputation for providing reliable and high-quality products, ensuring seamless integration with their vehicles.

Besides this, OEMs often collaborate closely with automakers during the vehicle design phase, customizing batteries to meet specific performance requirements and optimize

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compatibility. This collaboration further solidifies their dominance in the market. Additionally, the strong distribution network and after-sales service support offered by OEMs foster customer loyalty and encourage automakers to maintain long-term partnerships.

Breakup by Region:

Asia Pacific
North America
Europe
Middle East and Africa
Latin America

Asia Pacific exhibits a clear dominance, accounting for the largest automotive lead-acid battery market share

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, North America, Europe, Middle East and Africa, and Latin America. According to the report, Asia Pacific represented the largest market share.

Asia Pacific dominates the automotive lead-acid battery market as the region is home to some of the world's largest automotive industries, with countries like China, Japan, India, and South Korea leading in vehicle production and sales. This robust automotive manufacturing ecosystem creates a massive demand for lead-acid batteries to power the extensive fleet of conventional vehicles. Moreover, Asia Pacific experiences rapid urbanization and industrialization, driving the need for commercial vehicles and supporting infrastructure development.

In line with this, the region's massive population and increasing disposable income levels propel automotive ownership, further fueling the demand for lead-acid batteries in personal and commercial vehicles. Additionally, the adoption of electric vehicles and hybrid vehicles is gaining momentum in the region, with lead-acid batteries being utilized in specific hybrid configurations, contributing to market growth. Besides this, the region's expanding logistics and transportation sectors necessitate efficient battery solutions for commercial vehicles, further bolstering the market.

Competitive Landscape:
The competitive landscape of the automotive lead-acid battery market is characterized

by intense rivalry among numerous players vying for market share. These companies operate across various regions, offering a wide range of lead-acid battery solutions for automotive applications. Factors such as product quality, performance, pricing, and brand reputation play a crucial role in distinguishing competitors in this market. As demand for sustainable transportation grows, the competition among battery manufacturers to supply efficient and eco-friendly batteries for electric and hybrid vehicles intensifies.

Moreover, technological advancements and innovations in lead-acid battery designs and manufacturing processes add to the competitive dynamics. Companies also focus on expanding their global presence, establishing strategic partnerships, and investing in research and development to gain a competitive edge. With the automotive industry's continuous evolution, players in the lead-acid battery market continually strive to position themselves as industry leaders by delivering reliable, cost-effective, and environmentally conscious solutions to meet the diverse needs of automotive manufacturers and consumers alike.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

C&D Technologies Inc.
Clarios
CSB Energy Technology Co. Ltd (Showa Denko K.K.)
East Penn Manufacturing Company
EnerSys
Exide Industries Ltd.
GS Yuasa Corporation
Koyo Battery Co., Ltd.
Leoch International Technology Ltd
PT. Century Batteries Indonesia
Robert Bosch GmbH
Thai Bellco Battery Co. Ltd.
Recent Developments:
In March 2023, PT Vale Indonesia Tbk and China’s Zhejiang Huayou Cobalt Co. announced an agreement with global automaker Ford Motor Co., creating a three-party collaboration to advance sustainable nickel production in Indonesia.
In July 2021, Showa Denko announced to sell its underperforming lead-acid operations for a reported 60 billion yen ($540 million).

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In November 2022, Clarios Foundation and UNICEF announced the renewal and expansion of their partnership to help reduce environmental hazards and create healthy environments for children.

Key Questions Answered in This Report

1. What was the size of the global automotive lead-acid battery market in 2023?
2. What is the expected growth rate of the global automotive lead-acid battery market during 2024-2032?
3. What are the key factors driving the global automotive lead-acid battery market?
4. What has been the impact of COVID-19 on the global automotive lead-acid battery market?
5. What is the breakup of the global automotive lead-acid battery market based on the vehicle type?
6. What is the breakup of the global automotive lead-acid battery market based on the product?
7. What is the breakup of the global automotive lead-acid battery market based on the type?
8. What is the breakup of the global automotive lead-acid battery market based on the customer segment?
9. What are the key regions in the global automotive lead-acid battery market?
10. Who are the key players/companies in the global automotive lead-acid battery market?

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