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U.S. Lead Acid Battery Market Size, Share & Trends Analysis Report By Product (SLI, Stationary), By Construction (Flooded, VRLA), By Application (Automotive, Telecom, Transport Vehicles), And Segment Forecasts, 2025 - 2030

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Abstracts

This report can be delivered to the clients within 3 Business Days

U.S. Lead Acid Battery Market Growth & Trends

The U.S. lead acid battery market size is anticipated treach USD 18.89 billion by 2030, according ta new report by Grand View Research, Inc. The market is projected tgrow at a CAGR of 5.6% from 2025 t2030. Growing demand for uninterruptible power supply or uninterruptible power source (UPS) systems in sectors such as oil and gas, healthcare, and chemical will drive market demand.

Robust manufacturing base and rapid growth of the automotive industry in the U.S. will augment demand for vehicle production and this will drive the demand for lead acid battery over the upcoming years. Hybrid and electric vehicles will witness growth on account of ongoing trend of substituting fuel with electric batteries. In addition, the government’s stringent regulations on emission norms in order tsafeguard the environment and reduce degradation-based options are expected tplay a critical role in shaping the overall battery market.

Lead acid battery manufacturing has witnessed significant technology upgradations during the past few years. These trends have resulted in substantial reduction in manufacturing cost of lead acid batteries. Carbon black additives are used in lead acid and expanders as they aid in high power delivery and energy density. Moreover, these

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additives enable battery developers textract high efficiency and enhance the life cycle of batteries.

The UPS market is expected twitness substantial growth over the next few years, which can be attributed tgrowing demand for high power range systems. Increasing trend toward the adoption of UPS systems as an essential power-back up device is expected tfavorably impact product demand over the forecast period.

Industrial power, including chemical, shipping, metal, and mining, is the most significant application for lead acid batteries, owing trapid industrialization in the country. Large manufacturing base of chemical companies, along with presence of multinationals like Bayer, BASF, Dow Chemical, and AkzoNobel, will increase industry penetration over the forecast period.

Moreover, presence of large steel manufacturers such as Hebei Iron & Steel Group, Baosteel Group Corp, WISCO, Jiangsu Shagang Group, Shougang Group, Anshan Iron & Steel Group, Shandong Iron & Steel Group, Maanshan Iron & Steel Co., Bohai Iron & Steel Group, and Valin Group will aid market penetration.

Various companies use these batteries on account of their low cost, high overcharge tolerance, high discharge rates, and low self-discharge. Leading end users include BMW, Toyota, Renault, Daimler, Tesla Motors, Hyundai, GM, RiellUPS, and EAPRO Global Limited. Lead acid batteries can undergsmelting process in order tbe recycled and reused.

U.S. Lead Acid Battery Market Report Highlights

SLI batteries dominated the market and accounted for the largest revenue share of 48.8% in 2024.

The stationary lead-acid battery segment is expected tgrow at a CAGR of 6.4% over the forecast period, owing trising demand for backup power solutions across various sectors, including telecommunications and renewable energy systems.

The flooded lead-acid battery segment led the market and accounted for the largest revenue share of 58.9% in 2024.

The automotive applications dominated the market and accounted for

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the largest revenue share of 56.1% in 2024, owing tthe increasing demand for vehicles.

The UPS applications segment is expected tgrow at a CAGR of 7.3% over the forecast period.

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