United States SLI Battery - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 95 pages | Mordor Intelligence

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Report description:

The United States SLI Battery Market size is estimated at USD 1.50 billion in 2025, and is expected to reach USD 1.77 billion by 2030, at a CAGR of 3.35% during the forecast period (2025-2030).

Key Highlights
- Over the medium term, factors such as the growing electric vehicles industry in the region and the increasing adoption of SLI batteries in industrial applications are expected to be among the most significant drivers for the US SLI battery market during the forecast period.
- On the other hand, there is increasing competition from alternate battery chemistries that pose a threat to the market's growth during the forecast period.
- Nevertheless, continued efforts to conduct research and development regarding SLI batteries are expected to create several future market opportunities.

United States SLI Battery Market Trends

The Automotive End-user Segment is Expected to Witness Significant Growth

- The automotive end-user segment represents a significant portion of the US SLI battery market. This segment primarily encompasses passenger vehicles, commercial vehicles, and off-road vehicles, all of which rely heavily on SLI batteries for their core functionalities. The segment's demand for SLI batteries is driven by several factors, including new vehicle sales, the existing

vehicle fleet size, and replacement cycles for batteries in older vehicles.
- In recent years, the US automotive industry has experienced fluctuations in new vehicle sales, influenced by economic conditions, consumer preferences, and global events such as the COVID-19 pandemic. Despite these fluctuations, the overall trend showed a gradual increase in the total number of vehicles on US roads, directly impacting the demand for SLI batteries.
- According to the International Organization of Motor Vehicle Manufacturers, the production of vehicles has increased significantly in recent years. The annual average growth rate for vehicle production between 2020 and 2023 was over 5%. In contrast, the growth rate between 2022 and 2023 was over 5.5%, signifying the growing demand for vehicles.
- Technological advancements in the segment have led to the development of more sophisticated vehicle electrical systems, which has driven innovations in SLI battery technology. Modern vehicles feature advanced start-stop systems, regenerative braking, and a growing number of electrical components, placing higher pressure on the vehicle's battery.
- In response, battery manufacturers have introduced enhanced flooded batteries (EFB) and absorbent glass mat (AGM) batteries, which offer improved performance and longevity compared to traditional lead-acid batteries. These advanced batteries are becoming increasingly common in new vehicles, particularly in those with start-stop systems, and are gradually gaining shares in the replacement market as well.
- For instance, in April 2024, Clarios, a leading producer accounting for a third of the global low-voltage car battery market, inked a significant supplier deal with a major original equipment manufacturer. This partnership is centered around Clarios' latest innovation: a high-performance 12-volt rechargeable absorbent glass mat (AGM) battery. This cutting-edge battery boasts enhanced charge acceptance, a feature that not only aids in curbing fuel consumption but also plays a pivotal role in reducing CO2 emissions. Initially, the focus is expected to be on introducing this innovative AGM battery, designed for light, medium, and heavy-duty vehicles, exclusively in the United States, through the aforementioned original equipment manufacturer contract.
- Additionally, the ongoing electrification trend in the segment, including the rise of hybrid and fully electric vehicles, may reduce the demand for traditional SLI batteries in the long term. However, this transition is gradual, and internal combustion engine vehicles are expected to remain a significant part of the US vehicle fleet for many years.
- Therefore, as per the points mentioned above, the automotive end-user segment is expected to witness significant growth during the forecast period.

Growing Adoption of Batteries in Industrial Applications to Drive the Market

- The growing adoption of batteries in industrial applications is a significant growth driver for the market. This trend is reshaping the landscape of industrial power solutions, with SLI batteries finding new and expanded roles beyond their traditional automotive applications.
- Industrial sectors such as manufacturing, logistics, agriculture, and construction are increasingly recognizing the versatility and reliability of SLI batteries, leading to a surge in demand across various applications. This shift is not only expanding the market for SLI batteries but also spurring innovation in battery technology to meet the specific needs of industrial users.
- In the fourth quarter of 2023, the US Bureau of Economic Analysis reported a significant surge in the manufacturing sector's gross output, which soared to USD 7,261.1 billion, up from USD 5,950.4 billion in 2021, marking a remarkable growth rate of over 22% in just two years. Given this robust expansion in manufacturing, the demand for SLI batteries is poised for a parallel uptick across diverse industrial applications.
- In the manufacturing sector, SLI batteries are being increasingly utilized in material handling equipment such as forklifts, pallet jacks, and automated guided vehicles (AGVs). These applications require batteries that can provide high starting power and withstand frequent charge-discharge cycles. The ability of SLI batteries to deliver quick bursts of energy makes them particularly suitable for equipment that requires intermittent but robust operation.
- As manufacturing facilities continue to automate and optimize their processes, the demand for reliable and cost-effective power solutions like SLI batteries is expected to grow. This trend is further accelerated by the push toward electrification in industrial settings, which is driven by environmental concerns and the pursuit of operational efficiencies.

- For instance, in February 2024, OMRON Automation Americas, a prominent player in industrial automation, unveiled its MD Series of autonomous mobile robots (AMRs). The MD Series aims to enhance operational efficiency at production facilities, broadening OMRON's portfolio to address a more diverse range of part and material transport needs. This launch was particularly significant for industries relying on SLI batteries, as the MD Series can streamline the transport and handling of these critical components, ensuring smoother production workflows.
- The logistics and warehousing sector represents another significant growth area for SLI batteries. With the explosive growth of e-commerce and the consequent expansion of distribution centers across the United States, there has been a corresponding increase in the use of electric material handling equipment. SLI batteries are finding applications in a wide range of logistics vehicles, from small electric pallet trucks to large warehouse forklifts.
- Therefore, as mentioned above, the increasing adoption of these batteries in industrial and manufacturing settings is expected to drive the market during the forecast period.

United States SLI Battery Industry Overview

The US SLI battery market is semi-fragmented. Some of the key players in this market (in no particular order) include GS Yuasa International Ltd, Exide Technologies, Johnson Controls, EnerSys, and East Penn Manufacturing Company.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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