

## Lead acid batteries market

Lead Acid Battery Market size in 2023 was valued at USD 95.9 billion and is estimated to grow at 3.1% CAGR by 2034. These units play a crucial role in backup power applications for data centers, telecom, and critical infrastructure. For instance, the number of data centers across the U.S. crossed a mark of 5,000 in 2023.

Lead acid batteries are preferred by the consumers as these units are significantly cheaper than available alternatives, making them the preferred choice for budget conscious. Declining battery costs along with increasing frequency of power outages, is projected to unlock lucrative growth opportunities for the industry.

Lead acid battery is a type of rechargeable battery that uses lead plates and an electrolyte solution to store and release electrical energy. When charged, lead is oxidized and lead dioxide is reduced, creating a potential difference. When discharged, the reverse happens, generating electricity. These batteries are known for their durability and their ability to provide high bursts of power.

The proliferation of the data centers along with robust development of IT infrastructure will energize the industry dynamic. Heavy reliance on constant communication, and information sharing coupled with rising costs of unplanned outages will further drive the product adoption. Increasing need for continuous & reliable power driven by the ever-expanding arena of internet and information technology will create a favorable business opportunity for Uninterrupted Power Supply (UPS) systems, which in turn will positively sway the industry outlook worldwide.



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