

# Aircraft Battery Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

<https://marketpublishers.com/r/AAF6319CA37FEN.html>

Date: November 2024

Pages: 210

Price: US\$ 4,850.00 (Single User License)

ID: AAF6319CA37FEN

## Abstracts

The Global Aircraft Battery Market, valued at USD 477.8 million in 2024, is anticipated to grow at a robust CAGR of 13.1% from 2025 to 2034. This growth is fueled by the aviation sector's focus on adopting efficient and lightweight energy storage solutions, driven by the need to reduce fuel consumption and lower carbon emissions. The transition from traditional lead-acid batteries to advanced lithium-ion and other high-performance alternatives is gaining momentum. These modern batteries offer superior energy storage capabilities and lighter weights, enhancing aircraft performance and reducing dependency on fossil fuels. The increasing emphasis on green aviation and advancements in electric and hybrid aircraft technologies are further propelling demand for high-capacity and reliable battery solutions.

The market is segmented by offering into products and services. The product segment is poised for significant expansion, with a CAGR of 13% by 2034. This growth is attributed to advancements in battery technology and the rising adoption of sustainable aviation practices. As the industry gravitates toward electric and hybrid propulsion systems, demand for cutting-edge battery products is soaring. Supportive regulatory policies and a global push for environmentally friendly aviation are also contributing to this upward trend.

In terms of capacity, the market is divided into less than 20 AH and more than 20 AH. Batteries with a capacity under 20 AH accounted for 57% share in 2024 and are expected to witness notable growth. This segment caters to the increasing demand for compact, lightweight batteries suitable for small aircraft, drones, and emerging electric vertical take-off and landing (eVTOL) vehicles. These batteries are ideal for applications where minimizing weight and space is critical, aligning with the aviation industry's push for efficiency and innovation.

North America aircraft battery market is projected to reach USD 715 million by 2034. The U.S. is at the forefront of this growth, driven by advancements in electric aircraft technologies and a strong commitment to sustainable aviation. Government initiatives and regulations from entities like the Federal Aviation Administration (FAA) are playing a pivotal role in encouraging the adoption of eco-friendly aviation solutions. These efforts are reshaping the market landscape, paving the way for cleaner and more efficient air travel.

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