

# **Aircraft Battery Market Size, Share, and Outlook, 2025 Report- By Type (Lead Acid Battery, Lithium-based Battery, Nickel-Based Battery, Others), By Application (Ground Power, Fault Clearing, Propulsion, Auxiliary Power Unit, Others), By Technology (Electronic, Hybrid, Traditional), By Aircraft (Private Aircraft, Military Aircraft, Commercial Aircraft), 2018-2032**

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## **Abstracts**

### Aircraft Battery Market Outlook

The Aircraft Battery Market size is expected to register a growth rate of 14.3% during the forecast period from \$518.27 Million in 2025 to \$1320.9 Million in 2032. The Aircraft Battery market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Aircraft Battery segments across 22 countries from 2021 to 2032. Key segments in the report include By Type (Lead Acid Battery, Lithium-based Battery, Nickel-Based Battery, Others), By Application (Ground Power, Fault Clearing, Propulsion, Auxiliary Power Unit, Others), By Technology (Electronic, Hybrid, Traditional), By Aircraft (Private Aircraft, Military Aircraft, Commercial Aircraft). Over 70 tables and charts showcase findings from our latest survey report on Aircraft Battery markets.

### Aircraft Battery Market Insights, 2025

The Aircraft Battery Market is witnessing significant advancements with the adoption of lithium-ion, solid-state, and hybrid battery technologies to enhance aircraft efficiency

and sustainability. Companies like Saft, Concorde Battery, and Tesla Aerospace are investing in AI-powered battery management systems (BMS), fast-charging aviation battery solutions, and lightweight energy storage innovations. The rise of electric vertical takeoff and landing (eVTOL) aircraft, hybrid-electric propulsion systems, and AI-driven battery health monitoring is fueling growth in this sector. However, challenges such as stringent aviation safety regulations, thermal management issues in high-performance batteries, and limited energy density compared to fossil fuels hinder widespread adoption. Additionally, government funding for sustainable aviation, increased R&D in battery recycling for aircraft, and AI-driven battery life optimization are driving new opportunities in next-generation aircraft batteries.

### Five Trends that will define global Aircraft Battery market in 2025 and Beyond

A closer look at the multi-million market for Aircraft Battery identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Aircraft Battery companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Aircraft Battery vendors.

### What are the biggest opportunities for growth in the Aircraft Battery industry?

The Aircraft Battery sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

### Aircraft Battery Market Segment Insights

The Aircraft Battery industry presents strong offers across categories. The analytical report offers forecasts of Aircraft Battery industry performance across segments and countries. Key segments in the industry include%li%By Type (Lead Acid Battery, Lithium-based Battery, Nickel-Based Battery, Others), By Application (Ground Power, Fault Clearing, Propulsion, Auxiliary Power Unit, Others), By Technology (Electronic, Hybrid, Traditional), By Aircraft (Private Aircraft, Military Aircraft, Commercial Aircraft).

The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Aircraft Battery market size outlook is provided for 22 countries across these regions.

### Market Value Chain

The chapter identifies potential companies and their operations across the global Aircraft Battery industry ecosystem. It assists decision-makers in evaluating global Aircraft Battery market fundamentals, market dynamics, and disruptive trends across the value chain segments.

### Scenario Analysis and Forecasts

Strategic decision-making in the Aircraft Battery industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

### Asia Pacific Aircraft Battery Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5 billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes drive the market. In particular, China and India are witnessing rapid shifts in consumer purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

### The State of Europe Aircraft Battery Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of

the largest markets for Aircraft Battery with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Aircraft Battery market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Aircraft Battery market Insights%li%Vendors are exploring new opportunities within the US Aircraft Battery industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Aircraft Battery companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Aircraft Battery market.

Latin American Aircraft Battery market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly gaining business growth in the region.

Middle East and Africa Aircraft Battery Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Aircraft Battery markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Aircraft Battery markets including the

UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of growth.

Competitive Landscape%li%How Aircraft Battery companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Amprius Inc, Concorde Battery Corp, EaglePicher Technologies, GS Yuasa Corp, Mid-Continent Instrument Co. Inc, Oxis Energy Ltd, Saft, Sion Power Corp, The Gill Electric Company.

Aircraft Battery Market Segmentation

By Type

Lead Acid Battery

Lithium-based Battery

Nickel-Based Battery

Others

By Application

Ground Power

Fault Clearing

Propulsion

Auxiliary Power Unit

Others

By Technology

Electronic

Hybrid

Traditional

By Aircraft

Private Aircraft

Military Aircraft

Commercial Aircraft

Leading Companies

Amprius Inc

Concorde Battery Corp

EaglePicher Technologies

GS Yuasa Corp

Mid-Continent Instrument Co. Inc

Oxis Energy Ltd

Saft

Sion Power Corp

The Gill Electric Company

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

## Contents

### 1. TABLE OF CONTENTS

List of Figures and Tables

### 2. EXECUTIVE SUMMARY

#### 2.1 Key Highlights

2.1.1 Aircraft Battery Market Size Outlook, 2018-2024 and 2025-2032

2.1.2 Largest Aircraft Battery Market Types and Applications

2.1.3 Fastest Growing Segments

2.1.4 Potential Markets

2.1.5 Market Concentration

#### 2.2 Market Scope and Segmentation

2.2.1 Market Scope- Segments

2.2.2 Market Scope- Countries

2.2.3 Macroeconomic and Demographic Outlook

2.2.4 Abbreviations

2.2.5 Units and Currency Conversions

### 3. RESEARCH METHODOLOGY

#### 3.1 Primary Research Surveys

#### 3.2 Secondary Data Sources

#### 3.3 Data Triangulation

#### 3.4 Forecast Methodology

#### 3.5 Assumptions and Limitations

### 4. INTRODUCTION TO GLOBAL AIRCRAFT BATTERY MARKET IN 2025

#### 4.1 Industry Panorama

#### 4.2 Leading Companies Profiled in the Study

#### 4.3 Asia Pacific Markets offer Robust Market Prospects for New Entrants

#### 4.4 Market Dynamics

4.4.1 Market Dynamics- Trends and Drivers

4.4.2 Market Dynamics- Opportunities and Challenges

#### 4.5 Regional Analysis

#### 4.6 Porter's Five Force Analysis

- 4.6.1 Intensity of Competitive Rivalry
- 4.6.2 Threat of New Entrants
- 4.6.3 Threat of Substitutes
- 4.6.4 Bargaining Power of Buyers
- 4.6.5 Bargaining Power of Suppliers
- 4.7 Aircraft Battery Industry Value Chain Analysis
  - 4.7.1 Stage of Value Chain
  - 4.7.2 Key Activities of Companies
  - 4.7.3 Companies Included in Each Stage
  - 4.7.4 Key Insights

## **5. AIRCRAFT BATTERY MARKET OUTLOOK TO 2032**

- 5.1 Market Size Forecast by Type, 2021-2024 and 2025-2032
- 5.2 Market Size Forecast by Application, 2021-2024 and 2024-2032
- 5.3 Market Size Forecast by Geography, 2021-2024 and 2024-2032

### **By Type**

**Lead Acid Battery**

**Lithium-based Battery**

**Nickel-Based Battery**

**Others**

### **By Application**

**Ground Power**

**Fault Clearing**

**Propulsion**

**Auxiliary Power Unit**

**Others**

### **By Technology**

**Electronic**

**Hybrid**

**Traditional**

### **By Aircraft**

**Private Aircraft**

**Military Aircraft**

**Commercial Aircraft**

## **6. GLOBAL AIRCRAFT BATTERY MARKET OUTLOOK ACROSS GROWTH SCENARIOS**

- 6.1 Low Growth Scenario**
- 6.2 Base/Reference Case**
- 6.3 High Growth Scenario**

## **6. NORTH AMERICA AIRCRAFT BATTERY MARKET SIZE OUTLOOK**

- 6.1 Key Market Statistics, 2024**
- 6.2 North America Aircraft Battery Market Trends and Growth Opportunities**
  - 6.2.1 North America Aircraft Battery Market Outlook by Type**
  - 6.2.2 North America Aircraft Battery Market Outlook by Application**
- 6.3 North America Aircraft Battery Market Outlook by Country**
  - 6.3.1 The US Aircraft Battery Market Outlook, 2021- 2032**
  - 6.3.2 Canada Aircraft Battery Market Outlook, 2021- 2032**
  - 6.3.3 Mexico Aircraft Battery Market Outlook, 2021- 2032**

## **7. EUROPE AIRCRAFT BATTERY MARKET SIZE OUTLOOK**

- 7.1 Key Market Statistics, 2024**
- 7.2 Europe Aircraft Battery Market Trends and Growth Opportunities**
  - 7.2.1 Europe Aircraft Battery Market Outlook by Type**
  - 7.2.2 Europe Aircraft Battery Market Outlook by Application**
- 7.3 Europe Aircraft Battery Market Outlook by Country**
  - 7.3.2 Germany Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.3 France Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.4 The UK Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.5 Spain Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.6 Italy Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.7 Russia Aircraft Battery Market Outlook, 2021- 2032**
  - 7.3.8 Rest of Europe Aircraft Battery Market Outlook, 2021- 2032**

## **8. ASIA PACIFIC AIRCRAFT BATTERY MARKET SIZE OUTLOOK**

- 8.1 Key Market Statistics, 2024**
- 8.2 Asia Pacific Aircraft Battery Market Trends and Growth Opportunities**
  - 8.2.1 Asia Pacific Aircraft Battery Market Outlook by Type**
  - 8.2.2 Asia Pacific Aircraft Battery Market Outlook by Application**
- 8.3 Asia Pacific Aircraft Battery Market Outlook by Country**
  - 8.3.1 China Aircraft Battery Market Outlook, 2021- 2032**
  - 8.3.2 India Aircraft Battery Market Outlook, 2021- 2032**

- 8.3.3 Japan Aircraft Battery Market Outlook, 2021- 2032**
- 8.3.4 South Korea Aircraft Battery Market Outlook, 2021- 2032**
- 8.3.5 Australia Aircraft Battery Market Outlook, 2021- 2032**
- 8.3.6 South East Asia Aircraft Battery Market Outlook, 2021- 2032**
- 8.3.7 Rest of Asia Pacific Aircraft Battery Market Outlook, 2021- 2032**

## **9. SOUTH AMERICA AIRCRAFT BATTERY MARKET SIZE OUTLOOK**

### **9.1 Key Market Statistics, 2024**

### **9.2 South America Aircraft Battery Market Trends and Growth Opportunities**

- 9.2.1 South America Aircraft Battery Market Outlook by Type**
- 9.2.2 South America Aircraft Battery Market Outlook by Application**

### **9.3 South America Aircraft Battery Market Outlook by Country**

- 9.3.1 Brazil Aircraft Battery Market Outlook, 2021- 2032**
- 9.3.2 Argentina Aircraft Battery Market Outlook, 2021- 2032**
- 9.3.3 Rest of South and Central America Aircraft Battery Market Outlook, 2021- 2032**

## **10. MIDDLE EAST AND AFRICA AIRCRAFT BATTERY MARKET SIZE OUTLOOK**

### **10.1 Key Market Statistics, 2024**

### **10.2 Middle East and Africa Aircraft Battery Market Trends and Growth Opportunities**

- 10.2.1 Middle East and Africa Aircraft Battery Market Outlook by Type**
- 10.2.2 Middle East and Africa Aircraft Battery Market Outlook by Application**

### **10.3 Middle East and Africa Aircraft Battery Market Outlook by Country**

- 10.3.1 Saudi Arabia Aircraft Battery Market Outlook, 2021- 2032**
- 10.3.2 The UAE Aircraft Battery Market Outlook, 2021- 2032**
- 10.3.3 Rest of Middle East Aircraft Battery Market Outlook, 2021- 2032**
- 10.3.4 South Africa Aircraft Battery Market Outlook, 2021- 2032**
- 10.3.5 Egypt Aircraft Battery Market Outlook, 2021- 2032**
- 10.3.6 Rest of Africa Aircraft Battery Market Outlook, 2021- 2032**

## **11. COMPANY PROFILES**

### **11.1 Leading 10 Companies**

**Amprius Inc**

**Concorde Battery Corp**

**EaglePicher Technologies**

**GS Yuasa Corp**  
**Mid-Continent Instrument Co. Inc**  
**Oxis Energy Ltd**  
**Saft**  
**Sion Power Corp**  
**The Gill Electric Company**  
**11.2 Overview**  
**11.3 Products and Services**  
**11.4 SWOT Profile**

## **12. APPENDIX**

**12.1 Subscription Options**  
**12.2 Customization Options**  
**12.3 Publisher Details**

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