

# **Global Aircraft Electrical Systems Market Size Study & Forecast, by System, Component, Technology, Platform, End-User, Application and Regional Forecasts 2025-2035**

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## **Abstracts**

The Global Aircraft Electrical Systems Market is valued at approximately USD 25.11 billion in 2024 and is projected to expand at a dynamic CAGR of 6.80% throughout the forecast period from 2025 to 2035. As the aviation industry pivots toward sustainability, electrification, and enhanced operational efficiency, aircraft electrical systems have come to occupy a pivotal role in next-generation airframe design and aerospace engineering. These systems, responsible for powering navigation, avionics, environmental control, propulsion, and safety-critical subsystems, are seeing a transformational upgrade fueled by growing demand for more electric and hybrid-electric aircraft. The market's growth trajectory is underpinned by rising aircraft production, increasing air traffic, and significant investments in energy-efficient technologies that reduce maintenance costs and carbon emissions.

The momentum behind “More Electric Aircraft” (MEA) initiatives is pushing aerospace manufacturers to retrofit older fleets and reimagine new models with lightweight electrical systems replacing pneumatic and hydraulic architectures. Innovations in power generation, energy storage, conversion, and distribution technologies are making aircraft systems increasingly autonomous, responsive, and optimized for real-time performance. As electric propulsion edges closer to mainstream adoption, especially in urban air mobility and regional aircraft segments, players in the aircraft electrical systems value chain are aggressively channeling capital into R&D, strategic alliances, and modular system development to futureproof their portfolios. However, challenges related to thermal management, voltage fluctuations, and complex system integration remain crucial areas requiring advanced engineering solutions.

Regionally, North America commanded the largest market share in 2024, driven by established aerospace OEMs, a strong aftermarket ecosystem, and sustained defense aviation budgets. The region's focus on developing electrified fighter aircraft, UAVs, and commercial airliners is catalyzing demand for high-performance electrical infrastructure. Meanwhile, the Asia Pacific region is poised for the fastest growth, as regional carriers rapidly expand fleets to meet burgeoning passenger demand. Countries such as China, India, and Japan are not only increasing domestic aircraft manufacturing but also investing in aviation electrification initiatives through public-private partnerships. Europe continues to strengthen its position with EU-funded programs such as Clean Aviation, fostering next-gen electric aircraft platforms and eco-efficient power architectures.

Major market players included in this report are:

Honeywell International Inc.

Safran S.A.

Collins Aerospace (Raytheon Technologies Corporation)

Thales Group

GE Aviation

AMETEK Inc.

Eaton Corporation

Astronics Corporation

Meggitt PLC

TTTech Computertechnik AG

Liebherr Group

BAE Systems

Parker-Hannifin Corporation

Crane Aerospace & Electronics

Diehl Aerospace GmbH

## Global Aircraft Electrical Systems Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By System:

Power Generation

Power Conversion

Power Distribution

Energy Storage

By Component:

(Component-level segmentation based on available data)

By Technology:

(Technology-level segmentation based on available data)

By Platform:

Commercial Aviation

Military Aviation

Business & General Aviation

By End-User:

(End-user segmentation based on available data)

By Application:

(Application-level segmentation based on available data)

By Region:

## North America

U.S.

Canada

## Europe

UK

Germany

France

Spain

Italy

Rest of Europe

## Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

## Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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