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Global Aerospace DC-DC Converter Market Size Study & Forecast, by Type, End User, Platform, and Regional Forecasts 2025–2035

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Abstracts

The Global Aerospace DC-DC Converter Market is valued at approximately USD 1.08 billion in 2024 and is projected to register a compound annual growth rate (CAGR) of around 7.5% over the forecast period from 2025 to 2035. At the core of modern aerospace electrical systems lies the DC-DC converter—a device that ensures efficient power conversion while maintaining stability and safety across vital avionics, radar, communication, and control systems. As aircraft evolve into more electronically-intensive platforms, the demand for lightweight, compact, and high-reliability power solutions has led to a sharp uptick in the adoption of DC-DC converters. These components are indispensable in both commercial and defense aviation sectors, underpinning the electrification movement and the rise of next-gen aerospace platforms.

The market growth is being driven by a blend of factors—rising global air travel, increasing commercial aircraft production, and the electrification of legacy aerospace systems. The surge in demand for more-electric aircraft (MEA), where hydraulic and pneumatic systems are being replaced by electrical alternatives, has compelled OEMs and Tier-1 suppliers to reconfigure onboard power architectures. DC-DC converters facilitate this transition by regulating voltage levels across a wide range of subsystems. Moreover, in defense aviation, the need for resilient power supply in harsh, high-altitude environments has prompted steady investments in advanced converter technologies. Despite such optimism, challenges including strict regulatory certifications, thermal management issues, and high design complexities may impede growth in the short term.

From a geographical lens, North America currently dominates the market, owing to its strong aerospace industrial base, extensive defense spending, and the presence of

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leading aircraft OEMs and system integrators. The U.S., in particular, has spearheaded innovation in electric aircraft and UAV programs, accelerating demand for power conversion solutions. Meanwhile, Europe is expected to maintain a significant share, supported by sustainability-driven initiatives like Clean Sky and Flightpath 2050, which encourage energy efficiency in aviation systems. Asia Pacific, on the other hand, is anticipated to witness the fastest growth throughout the forecast period due to increasing defense modernization programs in India and China, expanding commercial aviation fleets, and heavy investments in indigenous aircraft manufacturing.

Major market player included in this report are:

Infineon Technologies AG

Texas Instruments Incorporated

Vicor Corporation

Advanced Energy Industries, Inc.

SynQor, Inc.

Crane Aerospace & Electronics

Thales Group

Airbus SE

Honeywell International Inc.

BAE Systems plc

VPT, Inc.

RECOM Power GmbH

XP Power Limited

Eaton Corporation plc

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TDK-Lambda Corporation

Global Aerospace DC-DC Converter 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 Type:

Isolated

Non-Isolated

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By End User:

- Commercial Aviation
- Military Aviation
- Space

By Platform:

- Fixed-Wing Aircraft
- Rotary-Wing Aircraft
- Unmanned Aerial Vehicles (UAVs)
- Satellites & Spacecraft

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain

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- 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:

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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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