

Aircraft DC-DC Converter Market by Application, Aircraft Type (Fixed Wing, Rotary Wing, Unmanned Aerial Vehicles, Air Taxis), Form Factor, Input Voltage, Output Voltage, Output Power, Output Number, Type, and Region - Forecast to 2030

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Abstracts

The global aerospace DC-DC converter market size is projected to grow from USD 0.7 billion in 2021 to USD 1.7 billion by 2030, at a CAGR of 10.3% from 2021 to 2030. The market is driven by various factors, such introduction to new programs in business jets, rise in aircraft renewals and deliveries, growing demand for unmanned aerial vehicles and increasing demand for military helicopters.

The aerospace DC-DC converter market will majorly be driven by the rise in aircraft renewals and deliveries in the forecasted year. The International Air Transportation Association forecast for air travel demand in 2021 is a 50.4% improvement compared to 2020. This will lead to an increase in the demand for manufacturing and procurement of aircraft. According to Boeing's Outlook, long-term forecasting considering a short term for replacement and medium-term for revived growth has shown a requirement of 43,110 new airplanes by 2039. This would lead to a spike in aircraft deliveries in Asia Pacific, the Middle East, Africa, and Latin America in commercial, freight, and defense aircraft. These new and renewed aircraft will be equipped with new technologies that consume less power and make them more efficient. This leads to the increase in the demand for aerospace electrical components such as DC-DC converters, which are used in various applications for aircrafts.

The aerospace DC-DC converter market includes major players TDK Lambda Corporation (Japan), Advanced Energy Industries Inc. (US), Murata Manufacturing Co. Ltd. (Japan), Infineon Technologies AG (Germany), and Vicor Corporation (US). These

players have spread their business across various countries includes North America, Europe, Asia Pacific, Middle East, and Rest of the World. COVID-19 has impacted their businesses as well. Industry experts believe that COVID-19 has affected aerospace DC-DC converter production and services globally in 2020.

“Non-Isolated DC-DC Converters: The largest segment of the Aerospace DC-DC Converter market, by Type. “

The non-isolated type DC-DC converter are projected to grow at the highest CAGR rate for the aerospace DC-DC converter market during the forecast period. Non-isolated DC-DC converters in aerospace are used in several sub-systems of UAVs and aircrafts, such as cockpit lighting. In the aerospace and defense industry, 10 to 20 Amp rated non-isolated DC-DC converters are used. These converters can operate in wide temperatures from -40°C to 85°C. All DC-DC converters used in the aerospace and defense industry are of military standard. Texas Instruments' LM5161 is one such non-isolated aerospace DC-DC converter used in UAVs.

“Multiple Power Output: The fastest-growing segment of the aerospace DC-DC Converter market, by Output Number. “

Based on the output number, the multiple output DC-DC converters are projected to grow at the highest CAGR rate for the aerospace DC-DC converter market during the forecast period. Multiple output DC-DC converters in the aerospace industry are used in avionics systems in cockpits, where the same voltage level is required for driving many sub-systems. One such sub-system is the cockpit lighting system in aircrafts. They work for input voltage ranges from 18 volts to 32 volts DC and are capable of providing output DC voltage in the range of 3.3 to 18 volts. These converters have an operating efficiency of as high as 98%. RECOM Power's MD200 provides one 5Vdc output and two 12Vdc outputs.

“Brick: The fastest-growing segment of the aerospace DC-DC converter market, by Form Factor. “

Based on the form factor, the brick DC-DC converter is projected to grow at the highest CAGR for the aerospace DC-DC converter market during the forecast period. Brick DC-DC converters offer products in different sizes, fulfilling the need for a compact DC-DC converter. These can be further categorized into full brick, half brick, quarter brick, eighth brick, and sixteenth brick.

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