

# Global Aircraft Electrical Solid-State Power Controller Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Aircraft Electrical Solid-State Power Controller market size was valued at US\$ 866 million in 2024 and is forecast to a readjusted size of USD 1137 million by 2031 with a CAGR of 4.0% during review period.

Solid-state power controllers (SSPCs) are semiconductor devices that primarily control power (voltage and current) supplied to a load. They are an important constituent of the aircraft's electrical power distribution systems, which are largely responsible for controlling, switching, protecting, and isolating the aircraft's electrical circuits. They perform supervisory and diagnostic functions in order to identify the overload conditions and prevent short circuits. In recent years, SSPCs have been replacing contactors and circuit breakers for circuit protection, due to their faster operation and high service life expectancy.

A solid-state power controller (SSPC) is a semiconductor device that primarily controls the power (voltage and current) supplied to the load. They are an important part of the aircraft's power distribution system, mainly responsible for controlling, switching, protecting, and isolating the aircraft's circuitry. They perform monitoring and diagnostic functions to identify overload conditions and prevent short circuits. In recent years, SSPCs have replaced contactors and circuit breakers for circuit protection because they operate faster and last longer.

This report is a detailed and comprehensive analysis for global Aircraft Electrical Solid-State Power Controller market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

**Key Features:**

Global Aircraft Electrical Solid-State Power Controller market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Aircraft Electrical Solid-State Power Controller market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Aircraft Electrical Solid-State Power Controller market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Aircraft Electrical Solid-State Power Controller market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

**The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries  
To assess the growth potential for Aircraft Electrical Solid-State Power Controller  
To forecast future growth in each product and end-use market  
To assess competitive factors affecting the marketplace

This report profiles key players in the global Aircraft Electrical Solid-State Power Controller market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GE Aviation, Safran Group, Collins Aerospace, TransDigm Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Aircraft Electrical Solid-State Power Controller market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Single-Phase Controller

Three-Phase Controller

### **Market segment by Application**

Commercial Aircraft

Military Aircraft

Private Aircraft

Others

### **Major players covered**

GE Aviation

Safran Group

Collins Aerospace

TransDigm Group

### **Market segment by region, regional analysis covers**

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Aircraft Electrical Solid-State Power Controller product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Aircraft Electrical Solid-State Power Controller, with price, sales quantity, revenue, and global market share of Aircraft Electrical Solid-State Power Controller from 2020 to 2025.

Chapter 3, the Aircraft Electrical Solid-State Power Controller competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Aircraft Electrical Solid-State Power Controller breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Aircraft Electrical Solid-State Power Controller market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Aircraft Electrical Solid-State Power Controller.

Chapter 14 and 15, to describe Aircraft Electrical Solid-State Power Controller sales

channel, distributors, customers, research findings and conclusion.

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