

Global Airborne Solid-State Power Controllers Market Growth 2026-2032

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Abstracts

The global Airborne Solid-State Power Controllers market size is predicted to grow from US\$ 423 million in 2025 to US\$ 712 million in 2032; it is expected to grow at a CAGR of 7.7% from 2026 to 2032.

Airborne solid state power controllers are high reliability power control components installed in the electrical power distribution systems of aircraft, helicopters, unmanned aerial vehicles, electric vertical takeoff and landing aircraft, and other airborne platforms. They are mainly used to replace conventional electromechanical relays, contactors, and thermal magnetic circuit breakers, enabling electronic switching control, load protection, fault isolation, and status monitoring of power circuits. The main product forms include single channel solid state power controllers, multi channel solid state power control boards, solid state power distribution units, remote power control modules, and high voltage DC solid state distribution control assemblies. Core technologies include power semiconductor switching, drive and protection circuits, overcurrent and short circuit detection, thermal management design, redundant control, airborne communication interfaces, and high reliability packaging processes. Key specifications typically include rated voltage, rated current, number of channels, response time, operating temperature, vibration and shock resistance level, dielectric withstand voltage, and fault protection capability. These products are mainly used in avionics equipment, mission payloads, lighting systems, cabin electrical loads, electromechanical actuation, unmanned aircraft power management, and high voltage DC distribution for more electric aircraft. They require compact size, low weight, low power loss, fast protection response, and long term operational stability, making them important enabling components for the intelligent upgrade of airborne electrical systems. In 2025, the global airborne solid state power controller industry had an average gross margin of approximately 30% to 40%.

Airborne solid state power controllers represent the shift of aircraft electrical distribution from mechanical switching toward electronic, intelligent, and high reliability power management. The upstream supply chain mainly includes power semiconductors, gate drivers, sensing components, connectors, thermal materials, high reliability substrates, and rugged packaging materials. The midstream layer consists of SSPC modules, multi channel control boards, remote power controllers, and solid state power distribution units. Downstream demand comes from commercial aircraft, military aircraft, helicopters, unmanned aircraft, business jets, and emerging electric vertical takeoff and landing platforms. The core value of the product is not limited to replacing relays or circuit breakers. It also improves fault response speed, reduces wiring weight, supports remote load control, enhances system diagnostics, and enables more flexible aircraft electrical architectures.

The global competitive landscape is concentrated, with the main supply base located in the United States and Europe. Leading participants are generally aircraft power distribution system suppliers, aerospace electronics companies, and high reliability power electronics manufacturers. Barriers to entry are high because the product requires long platform validation, strong thermal design, fault protection reliability, compliance with aviation and defense standards, and proven field performance. Industry consolidation has also shaped the supplier base, as several groups have expanded their aircraft power distribution portfolios through acquisitions of relay, electronic switching, and high reliability power control businesses. Chinese suppliers have begun to develop SSPC and high voltage DC solid state control products, but most still need stronger evidence of aircraft installation, international qualification, and stable delivery to major aerospace customers.

The market outlook is positive but not explosive. Growth will be driven by more electric aircraft architectures, high voltage DC distribution, military aircraft modernization, UAV expansion, and the gradual validation of electric aviation platforms. Policy support for aviation decarbonization, hybrid electric propulsion, advanced air mobility, and defense electrification will continue to support technology investment. However, the adoption curve remains disciplined because aircraft certification cycles are long, redesign opportunities are limited, and customers require extensive reliability verification before platform introduction. Over the medium and long term, SSPCs are expected to move from conventional secondary power distribution toward higher voltage, higher power density, smarter diagnostics, and more integrated solid state distribution units, making them an important enabling component in next generation airborne electrical systems.

LP Information, Inc. (LPI) ' newest research report, the "Airborne Solid-State Power

Controllers Industry Forecast” looks at past sales and reviews total world Airborne Solid-State Power Controllers sales in 2025, providing a comprehensive analysis by region and market sector of projected Airborne Solid-State Power Controllers sales for 2026 through 2032. With Airborne Solid-State Power Controllers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Airborne Solid-State Power Controllers industry.

This Insight Report provides a comprehensive analysis of the global Airborne Solid-State Power Controllers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Airborne Solid-State Power Controllers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Airborne Solid-State Power Controllers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Airborne Solid-State Power Controllers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Airborne Solid-State Power Controllers.

This report presents a comprehensive overview, market shares, and growth opportunities of Airborne Solid-State Power Controllers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Phase SSPC

Three-Phase SSPC

Others

Segmentation by Power Type:

DC SSPC

AC SSPC

Others

Segmentation by Current Rating:

Low Current SSPC (1 A to 5 A per channel)

Medium Current SSPC (6 A to 25 A per channel)

High Current SSPC (26 A to 100 A per channel)

Very High Current SSPC (Above 100 A per channel)

Others

Segmentation by Application:

General Aviation

UAV (Unmanned Aerial Vehicle)

Helicopter

Space Applications

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

RTX Corporation

Safran Electrical & Power

Astronics Corporation

TransDigm Group Incorporated

AMETEK, Inc.

Sensitron Semiconductor

GE Aerospace

TE Connectivity plc

North Atlantic Industries, Inc.

Shenzhen VICORV Technology Co., Ltd.

HYJAS Electronics Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Airborne Solid-State Power Controllers market?

What factors are driving Airborne Solid-State Power Controllers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Airborne Solid-State Power Controllers market opportunities vary by end market size?

How does Airborne Solid-State Power Controllers break out by Type, by Application?

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