

Global Fusion Magnet Power Supply Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GB11F6901607EN.html>

Date: August 2026

Pages: 99

Price: US\$ 3,480.00 (Single User License)

ID: GB11F6901607EN

Abstracts

According to our (Global Info Research) latest study, the global Fusion Magnet Power Supply market size was valued at US\$ 242 million in 2025 and is forecast to a readjusted size of US\$ 493 million by 2032 with a CAGR of 10.6% during review period.

Fusion magnet power supplies are high power electronic equipment designed to provide controlled electrical current to magnet coils used in magnetic confinement fusion devices, including tokamaks, stellarators, experimental fusion facilities, and future commercial fusion systems. The equipment converts grid supplied alternating current into highly stable, precisely regulated direct current or reversible current output for toroidal field coils, poloidal field coils, central solenoids, vertical stabilization coils, and correction coils. It serves as a critical electrical infrastructure component for establishing, maintaining, shaping, and dynamically controlling magnetic fields required for plasma confinement and stable fusion operation.

Fusion magnet power supplies typically consist of converter transformers, AC to DC power conversion units, thyristor or IGBT based power modules, DC bus systems, fast switching devices, energy discharge and protection units, digital control platforms, precision measurement systems, and auxiliary cooling systems. The products are generally delivered in the form of magnet power supply cabinets, power converter units, control cabinets, protection modules, and integrated power supply systems. Due to differences in magnet configuration, plasma operating requirements, and facility scale, these systems are usually customized for individual fusion projects.

The core technologies include high power energy conversion, high current regulation, fast dynamic response control, multi channel coordination, fault protection, energy

management, and long duration operational reliability. Key technical specifications include output current level, voltage range, power capacity, current regulation accuracy, response time, current ripple, stability performance, energy recovery capability, and system availability. Large scale fusion facilities typically require power supplies capable of delivering thousands to tens of thousands of amperes while maintaining precise control during rapid plasma evolution processes. These systems are mainly applied in tokamak reactors, stellarator devices, superconducting magnet fusion systems, fusion research facilities, and emerging commercial fusion demonstration projects.

In 2025, the global average price of fusion magnet power supplies was approximately USD 8 million to USD 12 million per unit, and the global average gross margin of fusion magnet power supplies was approximately 35% to 50%.

Fusion magnet power supplies represent a critical enabling technology for magnetic confinement fusion systems, supporting the operation of tokamaks, stellarators, and next generation fusion devices through precise control of large scale magnetic fields. The industrial value chain covers upstream power semiconductor components, high reliability electrical devices, specialty transformers, control hardware, sensors, and thermal management components. The midstream sector focuses on high power conversion system engineering, magnet power control, protection technologies, and project based integration, while downstream demand is generated by fusion research facilities, demonstration reactors, and emerging commercial fusion platforms. Due to extreme reliability requirements and customized engineering characteristics, these systems are developed according to specific fusion device configurations rather than standardized industrial production models. The global supply landscape of fusion magnet power supplies remains highly specialized and concentrated around regions with strong fusion research programs and advanced power electronics capabilities. Europe, China, South Korea, Japan, and the United States have established relevant capabilities, but their industrial structures differ significantly. European suppliers are closely connected with large scientific infrastructure projects and specialized power electronics engineering companies. China has developed a collaborative model combining research institutions, national fusion programs, and equipment manufacturers. South Korea has strengthened its capabilities through international fusion projects, while the United States is increasingly focused on internal development driven by private fusion companies. Competition in this market is primarily determined by engineering experience, system reliability, project execution capability, and successful deployment history rather than manufacturing scale. Market demand is mainly driven by the construction of new fusion facilities, upgrades of existing

experimental reactors, and investment from commercial fusion companies. The development of high temperature superconducting magnets, compact fusion devices, and advanced magnetic confinement approaches is creating new requirements for higher current density, faster control response, and improved energy management. Government support for advanced energy technologies and increasing investment in fusion development programs are accelerating the transition from experimental research toward engineering demonstration, creating additional demand for advanced magnet power conversion systems. The future evolution of the industry will focus on higher reliability, modular architectures, and intelligent digital control. Next generation fusion devices will require power systems capable of handling more demanding operating conditions, including faster current regulation, improved protection performance, and enhanced coordination among multiple magnet circuits. Regional supply chains in China, Europe, and South Korea are expected to remain important for large fusion projects, while increasing investment from commercial fusion developers may reshape supplier relationships in the United States and other regions. Overall, fusion magnet power supplies remain a niche but strategically important advanced energy equipment segment, with long term growth potential closely linked to the commercialization progress of fusion energy.

Report Scope

This report is a detailed and comprehensive analysis for global Fusion Magnet Power Supply 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 Fusion Magnet Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fusion Magnet Power Supply market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fusion Magnet Power Supply market size and forecasts, by Type and by

Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Fusion Magnet Power Supply market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 Fusion Magnet Power Supply

- 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 Fusion Magnet Power Supply 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 Rongxin Huike Electric Co., Ltd., DAWONSYS Co., Ltd., Jema Energy, S.A., Poseico S.p.A., Ampegon Power Electronics AG, Hefei Rongke Hengyang Power Technology Co., Ltd., Xi'an Actionpower Electric Co., Ltd., Woodruff Engineering, Inc., Sichuan Injet Electric Co., Ltd., etc.

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

Market Segmentation

Fusion Magnet Power Supply market is split by Type and by Application. For the period 2021-2032, 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

- Toroidal Field (TF) Coil Power Supply

Poloidal Field (PF) Coil Power Supply

Central Solenoid (CS) Power Supply

Correction Coil Power Supply

Vertical Stability (VS) Coil Power Supply

Others

Market segment by Power Output Class

High Power Class Above 100 MW

Medium Power Class 10 MW to 100 MW

Low Power Class Below 10 MW

Others

Market segment by Current Output Range

Ultra High Current Class Above 50 kA

High Current Class 10 kA to 50 kA

Medium Current Class 1 kA to 10 kA

Others

Market segment by Application

Tokamak Devices

Stellarator Devices

Fusion Magnet Test Facilities

Engineering Demonstration Fusion Devices

Commercial Fusion Devices

Others

Major players covered

Rongxin Huike Electric Co., Ltd.

DAWONSYS Co., Ltd.

Jema Energy, S.A.

Poseico S.p.A.

Ampegon Power Electronics AG

Hefei Rongke Hengyang Power Technology Co., Ltd.

Xi'an Actionpower Electric Co., Ltd.

Woodruff Engineering, Inc.

Sichuan Injet Electric Co., Ltd.

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)

Chapter Outline

Chapter 1, to describe Fusion Magnet Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fusion Magnet Power Supply, with price, sales quantity, revenue, and global market share of Fusion Magnet Power Supply from 2021 to 2026.

Chapter 3, the Fusion Magnet Power Supply competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fusion Magnet Power Supply breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Fusion Magnet Power Supply market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Fusion Magnet Power Supply.

Chapter 14 and 15, to describe Fusion Magnet Power Supply sales channel, distributors, customers, research findings and conclusion.

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