

Global Fusion Magnet Power Supply Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fusion Magnet Power Supply market size is expected to reach \$ 493 million by 2032, rising at a market growth of 10.6% CAGR during the forecast period (2026-2032).

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 studies the global Fusion Magnet Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fusion Magnet Power Supply and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fusion Magnet Power Supply that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fusion Magnet Power Supply total production and demand, 2021-2032, (Units)
Global Fusion Magnet Power Supply total production value, 2021-2032, (USD Million)
Global Fusion Magnet Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Fusion Magnet Power Supply consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Fusion Magnet Power Supply domestic production, consumption, key domestic manufacturers and share

Global Fusion Magnet Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Fusion Magnet Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Fusion Magnet Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Fusion Magnet Power Supply market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fusion Magnet Power Supply market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fusion Magnet Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fusion Magnet Power Supply Market, Segmentation 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

Global Fusion Magnet Power Supply Market, Segmentation 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

Global Fusion Magnet Power Supply Market, Segmentation 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

Global Fusion Magnet Power Supply Market, Segmentation by Application:

Tokamak Devices

Stellarator Devices

Fusion Magnet Test Facilities

Engineering Demonstration Fusion Devices

Commercial Fusion Devices

Others

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Fusion Magnet Power Supply market?
2. What is the demand of the global Fusion Magnet Power Supply market?
3. What is the year over year growth of the global Fusion Magnet Power Supply market?
4. What is the production and production value of the global Fusion Magnet Power Supply market?
5. Who are the key producers in the global Fusion Magnet Power Supply market?
6. What are the growth factors driving the market demand?

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