

Global Thyristor-type Hydrogen Production Power Supply Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thyristor-type Hydrogen Production Power Supply market size is expected to reach \$ 234 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

A Thyristor-type hydrogen production power supply (also known as SCR rectifier power supply for hydrogen production) is a specialized electrical device that uses silicon-controlled rectifiers (SCRs), the most common type of thyristor, to convert alternating current (AC) from the power grid or other sources into precisely regulated direct current (DC) required for water electrolysis in hydrogen production. As a critical component connecting power sources and electrolyzers, its core function is to provide stable DC voltage and current matching the operational needs of electrolyzers (primarily alkaline and some PEM types), enabling efficient splitting of water into hydrogen and oxygen. It typically employs phase-controlled rectification technology with multi-pulse configurations (6, 12, or 24 pulses) to minimize harmonic distortion, incorporating transformers, thyristor stacks, control systems, and cooling equipment to deliver conversion efficiency of 92%-95%, rugged reliability, and cost-effectiveness for steady-state hydrogen production applications.

In 2025, global Thyristor-type Hydrogen Production Power Supply production reached approximately 985 units, with an average global market price of around US\$ 130,000 per unit. The production capacity of Thyristor-type Hydrogen Production Power Supply is approximately 1 K units per year, the average gross profit margin was 28-31%.

The upstream supply chain consists of providers of core components including thyristor/SCR modules, power transformers, rectifier assemblies, capacitors, inductors,

cooling systems (air or water), and control electronics, alongside raw materials such as copper, aluminum, magnetic alloys, and insulation materials. Midstream involves system integrators responsible for designing, assembling, testing, and commissioning complete Thyristor-type hydrogen production power supply units, integrating hardware with control software for monitoring, protection, and performance optimization. Downstream relationships include distribution through energy equipment suppliers, EPC contractors, and direct sales to end-users, supported by after-sales services for maintenance, repair, and performance upgrades, serving hydrogen production facilities, industrial gas manufacturers, refineries, and conventional hydrogen infrastructure developers. The supply chain is interconnected with power grid operators for conventional power supply and renewable energy generation providers for green hydrogen applications, while also relying on specialized component manufacturers for high-power thyristor devices and thermal management solutions.

The cost structure of a Thyristor-type hydrogen production power supply is dominated by hardware expenses accounting for 75%–85% of total costs, with thyristor/SCR modules representing the largest single component at 25%–35% of total expenditure. Power transformers and rectifier assemblies contribute 20%–25%, while control systems, cooling equipment, and safety components add 10%–15%. Software development, integration, and testing account for 3%–5%, with manufacturing, assembly, and quality control processes representing 6%–9% of costs. Indirect costs including R&D, marketing, logistics, installation, and after-sales service make up 10%–15% of total expenditure. Multi-pulse configurations with advanced harmonic mitigation typically cost 10%–15% more than standard models, while large-scale (MW+) systems benefit from economies of scale with 8%–12% lower per-kilowatt costs compared to small-scale units.

This report studies the global Thyristor-type Hydrogen Production Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thyristor-type Hydrogen Production 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 Thyristor-type Hydrogen Production Power Supply that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thyristor-type Hydrogen Production Power Supply total production and demand,

2021-2032, (Units)

Global Thyristor-type Hydrogen Production Power Supply total production value, 2021-2032, (USD Million)

Global Thyristor-type Hydrogen Production Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thyristor-type Hydrogen Production Power Supply consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thyristor-type Hydrogen Production Power Supply domestic production, consumption, key domestic manufacturers and share

Global Thyristor-type Hydrogen Production Power Supply production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thyristor-type Hydrogen Production Power Supply production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thyristor-type Hydrogen Production Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thyristor-type Hydrogen Production 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 ABB, Dynapower, KraftPowercon, Green Power Co., Ltd., Wolong Electric Group, Tmpower, Dynamic Power New Energy, Jiujiang LiYuan Rectifier Equipment, 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 Thyristor-type Hydrogen Production Power Supply market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Thyristor-type Hydrogen Production Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thyristor-type Hydrogen Production Power Supply Market, Segmentation by Type:

Air-Cooled Type

Water-Cooled Type

Global Thyristor-type Hydrogen Production Power Supply Market, Segmentation by Pulse Configuration:

6-Pulse Type

12-Pulse Type

Other

Global Thyristor-type Hydrogen Production Power Supply Market, Segmentation by Application:

Industrial Hydrogen Production

Refinery Hydrogen Supply

Ammonia and Fertilizer Manufacturing

Others

Companies Profiled:

ABB

Dynapower

KraftPowercon

Green Power Co., Ltd.

Wolong Electric Group

Tmpower

Dynamic Power New Energy

Jiujiang LiYuan Rectifier Equipment

Key Questions Answered:

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

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