

Global Hydrogen Electrolysis Rectifier Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Hydrogen Electrolysis Rectifier market size is expected to reach \$ 1117.5 million by 2029, rising at a market growth of 58.3% CAGR during the forecast period (2023-2029).

Nowadays, 96% of the global hydrogen produced comes from the use of fossil fuels (i.e., natural gas, oil); whereas production from water electrolysis represents only 4%. Indeed, the cost of hydrogen production by using fossil fuels is smaller than water electrolysis given that current electrolyzers are quite expensive and the cost of electricity as well. However, hydrogen production based on fossil fuels, namely gray hydrogen, suffers from lower purity and higher generation of greenhouse gases. To face the intensive use and depletion of fossil fuels to respond to hydrogen demands, water electrolysis supplied by renewable energy sources (e.g., wind turbine, photovoltaic) is considered an attractive and promising alternative. Renewable energy sources combined with water electrolysis come within the scope of the development of environmentally friendly hydrogen production pathways to substitute current hydrogen production based on pollutant fuels. Water electrolysis can produce hydrogen at high gas purity but features high cost (electrolyzer, electricity) and lower energy efficiency due to a high specific energy consumption. For this reason, energy efficiency, cost of electricity, and water electrolysis systems remain major concern to the development of water electrolysis process at a large scale. The water electrolysis process consists of using electricity coming from the power grid or renewable energy sources to split pure water into hydrogen and oxygen. The global market for water electrolysis for hydrogen production was estimated at US\$ 689.98 million in the year 2022, is projected to reach a revised size of US\$ 20.93 billion by 2029.

The hydrogen electrolysis rectifier is used in the water electrolysis hydrogen production

process. A rectifier is one or more diodes that are used for the conversion of AC into DC. Electrolysis is a promising option for hydrogen production from renewable resources.

Electrolysis is the process of using electricity to split water into hydrogen and oxygen. This reaction takes place in a unit called electrolyze. Electrolyzes can range in size from small, appliance-size equipment that is well-suited for small-scale distributed hydrogen production to large-scale, central production facilities that could be tied directly to renewable or other non-greenhouse-gas-emitting forms of electricity production.

The DC power supply required for electrolyzing water to produce hydrogen generally has higher voltage and lower current. This means that in the rectifier transformer, the voltage will be greatly increased and the current will be reduced accordingly.

Therefore, the design of the rectifier transformer must take into account the voltage and current requirements to ensure that the process of electrolyzing water to produce hydrogen is as efficient as possible. In addition to voltage and current requirements, the stability of the rectifier transformer is also one of the key factors. This is because once the output of the rectifier transformer is unstable, it will affect the process of electrolyzing water to produce hydrogen and may cause equipment damage or other problems. Therefore, stability is a factor that must be considered when designing a rectifier transformer.

This report studies the global Hydrogen Electrolysis Rectifier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen Electrolysis Rectifier, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen Electrolysis Rectifier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen Electrolysis Rectifier total production and demand, 2018-2029, (Units)

Global Hydrogen Electrolysis Rectifier total production value, 2018-2029, (USD Million)

Global Hydrogen Electrolysis Rectifier production by region & country, production,

value, CAGR, 2018-2029, (USD Million) & (Units)

Global Hydrogen Electrolysis Rectifier consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Hydrogen Electrolysis Rectifier domestic production, consumption, key domestic manufacturers and share

Global Hydrogen Electrolysis Rectifier production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Hydrogen Electrolysis Rectifier production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Hydrogen Electrolysis Rectifier production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global Hydrogen Electrolysis Rectifier 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 Ltd., Siemens AG, Hubei Green Power Co., Ltd., Prodrive Technologies B.V., Sensata Technologies, Inc., Jiangxi Liyuan Haina Tech. Co., Ltd., Comeca, Sungrow Power Supply and American Superconductor Corporation, 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 Hydrogen Electrolysis Rectifier 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Hydrogen Electrolysis Rectifier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen Electrolysis Rectifier Market, Segmentation by Type

Thyristor (SCR) Rectifier

IGBT Rectifier

Global Hydrogen Electrolysis Rectifier Market, Segmentation by Application

Alkaline Electrolyzer

PEM Electrolyzer

Solid Oxide Electrolyzer

Others

Companies Profiled:

ABB Ltd.

Siemens AG

Hubei Green Power Co., Ltd.

Prodrive Technologies B.V.

Sensata Technologies, Inc.

Jiangxi Liyuan Haina Tech. Co., Ltd.

Comeca

Sungrow Power Supply

American Superconductor Corporation

Ador Powertron Ltd.

KraftPowercon

AEG Power Solutions B.V.

Spang Power Electronics

Kexiong Power

Sichuan Injet Electric Co., Ltd.

Key Questions Answered

1. How big is the global Hydrogen Electrolysis Rectifier market?
2. What is the demand of the global Hydrogen Electrolysis Rectifier market?
3. What is the year over year growth of the global Hydrogen Electrolysis Rectifier market?

4. What is the production and production value of the global Hydrogen Electrolysis Rectifier market?

5. Who are the key producers in the global Hydrogen Electrolysis Rectifier market?

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