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Fixed Mounting Power Distribution Component Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Component Type (Circuit Breakers, Switchgear, Distribution Boards, Relay Panels), By Installation Type (Indoor, Outdoor), By Voltage Rating (Low Voltage, Medium Voltage, High Voltage), By End-User Industry (Residential, Commercial, Industrial, Utilities), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/FF5AB9D5FAB0EN.html
Date: May 2026
Pages: 188
Price: US$ 4,500.00 (Single User License)
ID: FF5AB9D5FAB0EN

Abstracts

The Global Fixed Mounting Power Distribution Component Market is projected to expand from USD 11.18 Billion in 2025 to USD 14.24 Billion by 2031, exhibiting a compound annual growth rate (CAGR) of 4.11%. These components, including permanently installed circuit protection devices like air and molded case circuit breakers within switchgear assemblies, are crucial for secure electrical isolation and fault protection. Key drivers for this market's growth include the increasing global demand for reliable electricity, significant modernization efforts for aging grid infrastructure, and the accelerating integration of renewable energy sources, all requiring robust distribution networks. The substantial economic scale of this sector is underscored by the U.S. electroindustry market, which exceeded $375 billion in 2025, as reported by the National Electrical Manufacturers Association, highlighting the expansive infrastructure ecosystem these components support.

However, the market faces a considerable challenge from the unpredictable volatility of raw material prices, especially for critical metals such as copper and steel. This instability leads to fluctuating manufacturing costs, complicates pricing strategies, and

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can cause delays in capital-intensive infrastructure projects. Such price unpredictability also hinders the widespread adoption of fixed mounting solutions, particularly in price-sensitive developing regions.

Market Driver

The Global Fixed Mounting Power Distribution Component Market is significantly propelled by escalating global electricity consumption and increasing peak load demands. Intensifying urbanization necessitates that utility providers upgrade their infrastructure to accommodate higher power densities, driving the adoption of cost-efficient fixed-type circuit breakers and switchgear ideal for stable grid applications. The International Energy Agency's 'Electricity 2025' report, published in February 2025, forecasts global electricity demand to grow by nearly 4% annually through 2027. This expansion is further exemplified by the China Electricity Council's projection of the country's total electricity consumption reaching 10.4 trillion kilowatt-hours in 2025, underscoring the vast need for reliable distribution endpoints.

Concurrently, the integration of renewable energy sources is transforming the sector by requiring robust protection for decentralized assets. Fixed mounting configurations are increasingly preferred in utility-scale solar and wind projects due to their economical, permanent installation and lower maintenance frequency compared to critical manufacturing processes. The 'Global Wind Report 2025' from the Global Wind Energy Council, published in April 2025, revealed that the global wind industry installed 117 GW of new capacity in 2024. These substantial capacity additions directly stimulate the procurement of fixed distribution assemblies, thereby fueling market growth as operators seek efficient grid connections for new sustainable generation.

Market Challenge

The global fixed mounting power distribution component market faces a significant challenge due to the unpredictable volatility of raw material prices, particularly for essential metals like copper and steel. These components, including air and molded case circuit breakers, are heavily dependent on conductive and structural metals for their manufacturing. When metal prices fluctuate unpredictably, manufacturers struggle to maintain stable pricing, which either compresses profit margins or forces higher prices onto buyers, thereby suppressing demand. This inherent uncertainty complicates budget planning for large-scale utility and infrastructure projects, frequently leading developers to postpone or cancel crucial capitalization initiatives for grid modernization.

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Recent industry data underscores these severe cost pressures. The Associated General Contractors of America reported that in 2025, the Producer Price Index for steel mill products climbed by 13% year-over-year, while copper and brass mill shapes experienced a 4.9% increase. Such inflationary spikes directly elevate the cost of switchgear assemblies. This financial strain is especially pronounced in price-sensitive developing economies, often impeding the broader adoption of robust distribution solutions vital for expanding electrical networks.

Market Trends

The Global Fixed Mounting Power Distribution Component Market is experiencing a fundamental shift in its technical landscape driven by the transition toward SF6-free and eco-friendly insulation materials. Manufacturers are actively developing vacuum and pure air-insulated alternatives to eliminate potent greenhouse gases, all while ensuring the high fault-clearing capabilities essential for transmission networks. This trend emphasizes achieving enhanced performance metrics in green switchgear, guaranteeing that environmental compliance does not compromise grid stability. A notable technological advancement includes Hitachi Energy's update to its EconiQ portfolio in February 2025, introducing 420 kV SF6-free circuit breakers with an improved 80 kA short-circuit current rating, demonstrating the sector's capacity to integrate sustainability with the high-performance demands of complex grids.

Simultaneously, the widespread adoption of IoT-enabled digital switchgear is transforming fixed mounting components from mere passive isolation devices into intelligent nodes capable of real-time asset management. Utilities and industrial facility operators are increasingly acquiring circuit breakers embedded with advanced sensors and connectivity modules to gain critical insights into equipment health and optimize load distribution. This digitization facilitates predictive maintenance strategies, significantly reducing downtime, which has become a primary purchasing consideration. The rapid growth of this trend is evidenced by Siemens Energy's Q4 FY 2025 earnings release in November 2025, where its Grid Technologies business segment reported a comparable revenue growth of 25.4% for the fiscal year, highlighting the substantial market movement towards modernized, digitally integrated distribution infrastructure.

Key Market Players

ABB Ltd.

CG Power & Industrial Solutions Ltd.

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Eaton Corporation

GE Grid Solutions

G&W Electric Company

Hitachi Energy Ltd.

Lucy Group Ltd.

Larsen & Toubro Limited

Schneider Electric SE

Siemens AG

Report Scope

In this report, the Global Fixed Mounting Power Distribution Component Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Fixed Mounting Power Distribution Component Market, By Component Type

Circuit Breakers

Switchgear

Distribution Boards

Relay Panels

Fixed Mounting Power Distribution Component Market, By Installation Type

Indoor

Outdoor

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Fixed Mounting Power Distribution Component Market, By Voltage Rating

- Low Voltage
- Medium Voltage
- High Voltage

Fixed Mounting Power Distribution Component Market, By End-User Industry

- Residential
- Commercial
- Industrial
- Utilities

Fixed Mounting Power Distribution Component Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany

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Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Fixed Mounting Power Distribution Component Market.

Available Customizations:

Global Fixed Mounting Power Distribution Component Market report with the given

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market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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