

Medium Voltage Surge Arrester Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Medium Voltage Surge Arrester Market was valued at USD 779.5 million in 2024 and is projected to grow at a CAGR of 4.7% between 2025 and 2034. This growth is primarily driven by the increasing demand for reliable power transmission and distribution systems, fueled by rapid urbanization and accelerating industrial growth. As economies expand and infrastructure modernizes, the need for advanced surge protection becomes even more critical to ensure the safety and reliability of electrical systems. Surge arresters play a pivotal role in preventing equipment failure and minimizing downtime, making them indispensable in various industries. Additionally, the rising adoption of smart grids and renewable energy sources is contributing to the increased need for surge protection solutions. As power grids become more complex, the demand for advanced medium voltage surge arresters capable of withstanding harsh environmental conditions and ensuring grid stability is expected to rise significantly.

The market is segmented by material type into polymer and porcelain. Over the past few years, polymer-based surge arresters have gained significant traction due to their superior performance characteristics. These arresters are highly valued for their lightweight, corrosion-resistant properties, and exceptional durability in extreme environmental conditions. Industries that require robust protection against voltage surges are increasingly adopting polymer-based solutions to safeguard critical infrastructure. By 2034, the polymer-based segment is expected to generate USD 640 million, driven by continuous advancements in materials and production technologies. On the other hand, while porcelain-based surge arresters remain relevant in specific applications, their adoption rate has been relatively slower compared to their polymer counterparts.

The application of medium voltage surge arresters spans multiple sectors, including

utilities, industries, and residential and commercial areas. The utility sector currently holds the largest market share, accounting for 48% in 2024. This dominance is fueled by ongoing investments in power grid expansion and modernization initiatives that require enhanced protection from electrical surges. Critical infrastructure, such as manufacturing facilities, oil and gas installations, and data centers, heavily depends on surge arresters to prevent operational disruptions and safeguard sensitive equipment. With the increasing integration of renewable energy sources and the growing complexity of modern power grids, the demand for surge protection solutions within the utility sector is poised to surge further over the next decade.

The United States medium voltage surge arrester market generated USD 133.2 million in 2024 and is projected to reach USD 210 million by 2034. Factors contributing to this growth include the replacement of aging infrastructure and the ongoing expansion of smart grids, which necessitate the adoption of advanced surge protection solutions. As the U.S. continues to prioritize grid modernization and incorporate advanced technologies, the demand for surge arresters that ensure grid stability and minimize operational risks is expected to grow steadily.

Contents

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid
 - 1.4.2.2 Public

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021 - 2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Regulatory landscape
- 3.3 Industry impact forces
 - 3.3.1 Growth drivers
 - 3.3.2 Industry pitfalls & challenges
- 3.4 Growth potential analysis
- 3.5 Porter's analysis
 - 3.5.1 Bargaining power of suppliers
 - 3.5.2 Bargaining power of buyers
 - 3.5.3 Threat of new entrants
 - 3.5.4 Threat of substitutes
- 3.6 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Strategic dashboard
- 4.2 Innovation & sustainability landscape

CHAPTER 5 MARKET SIZE AND FORECAST, BY MATERIAL, 2021 – 2034 (USD MILLION, '000 UNITS)

- 5.1 Key trends
- 5.2 Polymer
- 5.3 Porcelain

CHAPTER 6 MARKET SIZE AND FORECAST, BY APPLICATION, 2021 – 2034 (USD MILLION, '000 UNITS)

- 6.1 Key trends
- 6.2 Residential & commercial
- 6.3 Industrial
- 6.4 Utility

CHAPTER 7 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 (USD MILLION, '000 UNITS)

- 7.1 Key trends
- 7.2 North America
 - 7.2.1 U.S.
 - 7.2.2 Canada
 - 7.2.3 Mexico
- 7.3 Europe
 - 7.3.1 UK
 - 7.3.2 Germany
 - 7.3.3 France
 - 7.3.4 Italy
 - 7.3.5 Spain
- 7.4 Asia Pacific
 - 7.4.1 China
 - 7.4.2 Japan
 - 7.4.3 India
 - 7.4.4 South Korea
 - 7.4.5 Australia
- 7.5 Middle East & Africa
 - 7.5.1 Saudi Arabia
 - 7.5.2 UAE
 - 7.5.3 Qatar
 - 7.5.4 South Africa
- 7.6 Latin America

7.6.1 Brazil

7.6.2 Argentina

CHAPTER 8 COMPANY PROFILES

8.1 ABB

8.2 CG Power & Industrial Solutions

8.3 CHINT Group

8.4 DEHN SE

8.5 Eaton

8.6 Ensto Elpro

8.7 General Electric

8.8 Hitachi Energy

8.9 Hubbell

8.10 Izoelektro

8.11 Schneider Electric

8.12 Siemens Energy

8.13 Surgetek

8.14 TDK Electronics

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