

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

<https://marketpublishers.com/r/DC30EDC00478EN.html>

Date: April 2025

Pages: 127

Price: US\$ 4,850.00 (Single User License)

ID: DC30EDC00478EN

Abstracts

The Global Distribution Surge Arrester Market was valued at USD 543.1 million in 2024 and is estimated to grow at a CAGR of 5.3% to reach USD 921.5 million by 2034. This growth is being driven by a rising global demand for uninterrupted and reliable electricity supply, which is vital in today's tech-driven world. As power grids continue to evolve, the need for advanced infrastructure that can handle voltage transients and sudden power surges becomes more critical. Countries across the globe are modernizing their energy distribution frameworks to support increasing electricity consumption, which further underscores the demand for robust surge protection solutions. As more homes and industries digitize and rely on electronic equipment for daily operations, the risk of equipment damage due to transient overvoltage has grown significantly. As a result, surge arresters have become indispensable components in power distribution systems, offering essential protection to infrastructure, equipment, and end-users alike. The trend toward energy decentralization and the proliferation of distributed generation sources, including solar and wind, have also intensified the need for enhanced surge protection capabilities.

The growing integration of renewable energy resources, along with increasing electric power utility efforts to safeguard systems from transient overvoltage, continues to influence the market positively. The surge arrester industry is experiencing increasing traction as utilities seek resilient and cost-effective solutions that ensure grid stability. The medium voltage category is forecasted to generate USD 555 million by 2034, as more infrastructure projects worldwide focus on boosting medium voltage installations for industrial and utility-scale applications. Meanwhile, demand for surge protection in the low-voltage category remains robust. The widespread use of sensitive electronics and automated systems across residential, commercial, and industrial sectors is

creating sustained growth momentum for this segment.

Polymer surge arresters, known for their lightweight, durable, and weather-resistant properties, held a 51% share in 2024 and are projected to grow steadily at a CAGR of 4.5% through 2034. These arresters are particularly suited for modern urban environments and renewable energy setups, where performance, compactness, and ease of installation are key requirements. With superior pollution resistance and minimal maintenance needs, polymer variants are fast replacing traditional porcelain-based arresters in new installations.

The U.S. Distribution Surge Arrester Market generated USD 92.8 million in 2024. The country is witnessing a surge in renewable energy adoption and smart grid implementation, which are primary growth catalysts. Utilities are deploying polymer-housed surge arresters to extend system longevity and minimize downtimes. The integration of IoT-enabled monitoring technologies is enhancing predictive maintenance and operational efficiency. Rising regulatory benchmarks and increasing exposure to severe weather events are further amplifying the need for cutting-edge surge protection technologies.

Key players in the Global Distribution Surge Arrester Market include ABB, Eaton, Siemens Energy, Hubbell, TDK Electronics, TE Connectivity, General Electric, Rex Power Magnetics, CHINT Group, and MacLean Power Systems. These companies are actively investing in R&D to expand product offerings and improve system performance through advanced materials and smart features. Strategic focus is being placed on developing polymer surge arresters that meet modern grid requirements while aligning with cost, durability, and reliability demands.

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 VOLTAGE, 2021 – 2034 ('000 UNITS, USD MILLION)

5.1 Key trends

5.2 Low

5.3 Medium

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

6.1 Key trends

6.2 Polymer

6.3 Porcelain

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

7.1 Key trends

7.2 Residential & commercial

7.3 Industrial

7.4 Utility

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021 – 2034 ('000 UNITS, USD MILLION)

8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.2.3 Mexico

8.3 Europe

8.3.1 UK

8.3.2 Germany

8.3.3 France

8.3.4 Italy

8.3.5 Spain

8.4 Asia Pacific

8.4.1 China

8.4.2 Japan

8.4.3 India

8.4.4 South Korea

- 8.4.5 Australia
- 8.5 Middle East & Africa
 - 8.5.1 Saudi Arabia
 - 8.5.2 UAE
 - 8.5.3 Qatar
 - 8.5.4 South Africa
- 8.6 Latin America
 - 8.6.1 Brazil
 - 8.6.2 Argentina

CHAPTER 9 COMPANY PROFILES

- 9.1 ABB
- 9.2 AK Power Solutions
- 9.3 CHINT Group
- 9.4 CG Power & Industrial Solutions
- 9.5 DEHN
- 9.6 Eaton
- 9.7 Elektrolites
- 9.8 Elpro
- 9.9 Ensto
- 9.10 General Electric
- 9.11 Hubbell
- 9.12 Izoelektro
- 9.13 MacLean Power Systems
- 9.14 Nanyang Jinniu Electric
- 9.15 Orient Electric International Group
- 9.16 Rex Power Magnetics
- 9.17 Siemens Energy
- 9.18 Surgetek
- 9.19 TDK Electronics
- 9.20 TE Connectivity

I would like to order

Product name: Distribution Surge Arrester Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

Product link: <https://marketpublishers.com/r/DC30EDC00478EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/DC30EDC00478EN.html>