

# **Residential Surge Arrester Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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## **Abstracts**

The Global Residential Surge Arrester Market reached USD 145.8 million in 2024 and is projected to grow at a CAGR of 4.6% between 2025 and 2034. This growth is fueled by increasing urbanization, the modernization of power grids, and the rising need for electrical protection in residential settings. As more households become dependent on advanced electrical networks, the demand for surge arresters continues to rise to safeguard sensitive electronic devices from power surges. Additionally, frequent power grid fluctuations and growing awareness of electrical safety further drive market expansion.

The increasing reliance on smart home technologies has amplified the necessity for effective surge protection solutions. Consumers are now investing in energy-efficient appliances, home automation systems, and interconnected devices, all of which require stable voltage protection. The integration of renewable energy sources into residential power grids has also contributed to this growing demand. The market is witnessing a shift toward compact, highly efficient surge arresters designed to maximize safety without compromising space efficiency. With stringent safety regulations being implemented globally, manufacturers are focusing on innovations that align with industry standards while ensuring optimal performance.

Another key factor contributing to market growth is the increasing frequency of extreme weather events, including storms and lightning strikes, which can cause severe power surges. Homeowners are becoming more proactive in safeguarding their electrical systems, further accelerating the demand for high-performance surge arresters. The rise in residential construction activities across urban centers is expected to reinforce market growth over the coming years.

The market is segmented by voltage category, including 120 V, 120 V to 240 V, and over 240 V. The 120 V segment is projected to generate USD 130 million by 2034,

driven by the demand for affordable and compact surge protection solutions for homes operating on lower voltage systems. This segment is particularly dominant in regions where 120 V power systems are standard, as homeowners seek cost-effective solutions to protect their devices from electrical fluctuations.

In terms of material, the market is divided into polymer and porcelain-based surge arresters. The polymer segment is expected to expand at a CAGR of 4.5% through 2034, owing to its lightweight structure, superior insulation properties, and resistance to moisture and UV exposure. These features make polymer-based surge arresters a preferred choice for residential applications, ensuring long-term durability and efficiency. The U.S. Residential Surge Arrester Market generated USD 24.9 million in 2024 and is forecasted to reach USD 40 million by 2034. The increasing adoption of home automation, rising grid instability, and a heightened focus on electrical safety are key factors propelling growth. Furthermore, substantial investments in renewable energy projects across the country are driving the need for surge protection solutions to safeguard these systems. As homeowners continue prioritizing power stability and safety, the U.S. market is set to experience steady expansion over the next decade.

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