

# Global Surge Filters Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Surge Filters market size is expected to reach \$ 673 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

Surge filters are protective filtering devices designed to suppress transient overvoltages and electromagnetic interference (EMI) in power systems and electronic equipment. Their primary function is to absorb or attenuate surge voltages caused by lightning strikes, grid switching events, or inductive load interruptions, while also filtering high-frequency noise to protect downstream circuits and sensitive components. Surge filters typically integrate metal oxide varistors (MOVs), gas discharge tubes (GDTs), transient voltage suppression (TVS) diodes, and LC filtering networks to provide staged protection and broadband suppression. They are widely used in industrial control systems, power infrastructure, and communication equipment.

The global production of surge filters is projected to reach 4.01 million units by 2025, with an average price of \$130 per unit.

Surge filters operate within a supply chain where upstream participants include magnetic material suppliers such as ferrite and silicon steel producers, capacitor and resistor manufacturers, metal enclosure and terminal processors and PCB and packaging material vendors. Core costs are concentrated in magnetic components, capacitive elements and structural parts. When integrated with varistors or gas discharge tubes, additional surge protection component suppliers are involved. Downstream applications span industrial power systems, telecom base stations, power distribution networks, data centers, rail transit, renewable energy generation systems and household appliances. Power infrastructure and renewable grid-connected equipment represent the primary demand segments, particularly in photovoltaic

inverters, energy storage systems and electric vehicle charging infrastructure where surge suppression and electromagnetic compatibility requirements continue to rise.

Industry trends focus on higher surge current tolerance, compact integrated designs, modular structures and enhanced high-frequency suppression capability, along with compliance with EMC and safety certification standards. As renewable installations expand and grid complexity increases, demand for high-reliability, long-lifetime integrated surge protection and filtering solutions is growing. Growth drivers include power infrastructure upgrades, industrial automation expansion, renewable energy and energy storage deployment, dense communication equipment installations and data center expansion. Key constraints involve intensified price competition, integration of protection functions into power modules, raw material price fluctuations and stronger bargaining power from downstream customers.

Overall industry gross margins typically range between 20% and 40%. Standard industrial-grade surge filters generally achieve margins of 20%-30%, while high-current, high-power or certification-intensive products can reach 30%-40%. Companies offering system-level solutions tend to maintain higher profitability, whereas commoditized products face limited margin space due to competition. The sector represents a specialized segment within electromagnetic compatibility and power protection markets, with moderate profitability and growth closely tied to power electronics and renewable energy expansion.

This report studies the global Surge Filters production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surge Filters and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Surge Filters that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Surge Filters total production and demand, 2021-2032, (Units)

Global Surge Filters total production value, 2021-2032, (USD Million)

Global Surge Filters production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Surge Filters consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Surge Filters domestic production, consumption, key domestic manufacturers and share

Global Surge Filters production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Surge Filters production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Surge Filters production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Surge Filters 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 Schneider Electric, Siemens, ABB, Eaton, Legrand, nVent, Phoenix Contact, TE Connectivity, DEHN, OBO Bettermann, 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 Surge Filters 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Surge Filters Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surge Filters Market, Segmentation by Type:

Type 1 Surge Filter (Main Distribution Level)

Type 2 Surge Filter (Sub-Distribution Level)

Type 3 Surge Filter (Equipment Level)

Global Surge Filters Market, Segmentation by Circuit Structure:

MOV-Based Composite Type

GDT + MOV Combination Type

TVS Precision Protection Type

LC Power Filter Composite Type

Global Surge Filters Market, Segmentation by Installation Method:

DIN Rail Mounted

Pluggable Module

Panel Mounted

Rack-Mounted

## Global Surge Filters Market, Segmentation by Application:

Industrial Automation Control Systems

Data Centers And Server Power Systems

Renewable Energy Generation Systems

Rail Transit And Power Infrastructure

Telecommunication Base Stations And Network Equipment

## Companies Profiled:

Schneider Electric

Siemens

ABB

Eaton

Legrand

nVent

Phoenix Contact

TE Connectivity

DEHN

OBO Bettermann

Raycap

Mersen

CITEL

Iskra Zaprte

Novaris

Saltek

Hakel

Prosurge

Lightning Protection International

XP Power

P-DUKE

EMIS

Meteolabor

Infinite Electronics

L.V. Control

**Key Questions Answered:**

1. How big is the global Surge Filters market?
2. What is the demand of the global Surge Filters market?
3. What is the year over year growth of the global Surge Filters market?
4. What is the production and production value of the global Surge Filters market?
5. Who are the key producers in the global Surge Filters market?
6. What are the growth factors driving the market demand?

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