

Global Surge Protection Devices (SPDs) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Surge Protection Devices (SPDs) market size is expected to reach \$ 2750 million by 2032, rising at a market growth of 1.6% CAGR during the forecast period (2026-2032).

In 2025, global Surge Protection Devices (SPDs) production reached approximately 335.66 million units, with an average global market price of around US\$ 7.13 per unit. A surge protective device (SPD) is a protective device for limiting transient voltages by diverting or limiting surge current and is capable of repeating these functions as specified. Surge Protective Devices are designed to protect against transient surge conditions. Large single surge events, such as lightning, can reach hundreds of thousands of volts and can cause immediate or intermittent equipment failure. However, lightning and utility power anomalies only account for 20% of transient surges. The remaining 80% of surge activity is produced internally. Although these surges may be smaller in magnitude, they occur more frequently and with continuous exposure can degrade sensitive electronic equipment within the facility.

Intelligentization and Remote Monitoring

With the development of information technology, intelligentization and remote monitoring have become important development directions for SPDs. By integrating digital technology, online monitoring and control technology, network technology, and communication technology, SPDs can achieve remote monitoring and intelligent management, improving the reliability and maintenance efficiency of the equipment.

Application of New Materials and Technologies

The application of new materials and technologies will further enhance the performance of SPDs. For example, the application of new types of varistors, gas discharge tubes, nanotechnology, and quantum dot technology can significantly improve the discharge capability and response speed of SPDs, reduce residual voltage, and enhance the protection level of the equipment.

Modularization and Customization

With the diversification of market demands, SPD products are moving toward modularization and customization. Modular design allows for flexible configuration according to different application scenarios, meeting the personalized needs of different industries and equipment.

Integration, Refinement, Stereoscopic, and Intelligent Development

The development of information technology is driving the integration, refinement, stereoscopic, and intelligent development of SPDs. With the diversification of electronic and electrical equipment, SPDs need to provide more refined protection solutions to adapt to different scenarios.

Growing Demand for High-End Products

With the increasing demand for high-end products, the market demand for high-performance SPDs will gradually increase. High-end products have higher requirements in terms of performance, reliability, and safety, meeting the needs of specific industries and critical applications.

Standardization and Technological Innovation

Standardization and technological innovation are important drivers for the development of the SPD market. The work of standardization committees and the establishment of national standards help promote the standardization and unification of SPD technology, improving product quality and market competitiveness.

Market Challenges and Opportunities

Although the market prospects are broad, there are also challenges such as counterfeit products, difficulties in technology promotion, and high maintenance costs. Solving these issues requires industry-wide efforts to strengthen technological innovation and

market regulation.

Industry Application Expansion

SPDs are widely used in various industries and fields, such as power, communication, transportation, construction, and data centers. With the increase in industry demand, the application scope of SPDs will further expand, driving continuous market growth.

This report studies the global Surge Protection Devices (SPDs) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surge Protection Devices (SPDs) 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 Protection Devices (SPDs) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Surge Protection Devices (SPDs) total production and demand, 2021-2032, (K Units)

Global Surge Protection Devices (SPDs) total production value, 2021-2032, (USD Million)

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

Global Surge Protection Devices (SPDs) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Surge Protection Devices (SPDs) domestic production, consumption, key domestic manufacturers and share

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

Global Surge Protection Devices (SPDs) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Surge Protection Devices (SPDs) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Surge Protection Devices (SPDs) 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 Phoenix, ABB, Emerson, DEHN SE,

Eaton, Siemens, ZG, Citel, Obo Bettermann, Schneider, 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 Protection Devices (SPDs) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Protection Devices (SPDs) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surge Protection Devices (SPDs) Market, Segmentation by Type:

Power Type SPD

Signal Type SPD

Others

Global Surge Protection Devices (SPDs) Market, Segmentation by Classification:

T1 Class (Grade B) Surge Protector

T2 Class (Grade C) Surge Protector

T3 Class (Grade D) Surge Protector

Global Surge Protection Devices (SPDs) Market, Segmentation by Technical Categories:

Voltage Switching Type

Voltage Limiting Type

Combination Type

Global Surge Protection Devices (SPDs) Market, Segmentation by Application:

Communication

Construction

Electric Power

Transportation

Oil and Gas

PV

Wind Power

Others

Companies Profiled:

Phoenix

ABB

Emerson

DEHN SE

Eaton

Siemens

ZG

Citel

Obo Bettermann

Schneider

Infinite Electronics

Weidmüller

Littelfuse

Mersen Electrical

NVent

Philips

LEIAN

HPXIN

MVC-Maxivolt

ASP

Legrand

JMV

Chengdu Pedaro Technology

Xiamen SET

C-Power

MCG Surge Protection

Leviton

KEANDA

Key Questions Answered:

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

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