

Global PV DC Surge Protective Devices Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global PV DC Surge Protective Devices market size was valued at US\$ 2114 million in 2024 and is forecast to a readjusted size of USD 2778 million by 2031 with a CAGR of 4.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Photovoltaic DC surge protective devices is a protective device designed for solar photovoltaic power generation systems to prevent damage to DC circuits caused by lightning strikes and power surges. It is usually installed in the DC line between the photovoltaic array and the inverter to ensure the stable operation and long-term reliability of the system. It can provide reliable protection under extreme weather conditions to prevent overvoltage damage to photovoltaic modules, inverters and other key equipment. Through effective surge protection, DC SPD ensures the long-term stable operation of the system and reduces the risk of failure caused by lightning strikes and power surges.

This report is a detailed and comprehensive analysis for global PV DC Surge Protective Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PV DC Surge Protective Devices market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PV DC Surge Protective Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PV DC Surge Protective Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global PV DC Surge Protective Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for PV DC Surge Protective Devices
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global PV DC Surge Protective Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Eaton, Littelfuse, Bourns, Schneider Electric, Mersen, Phoenix Contact, OBO Bettermann, LSP, Havells, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Global PV DC Surge Protective Devices Market 2025 by Manufacturers, Regions, Type and Application, Forecast to...

PV DC Surge Protective Devices market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 1000V

1000V-1500V

Above 1500V

Market segment by Application

Residential

Commercial

Industrial

Major players covered

ABB

Eaton

Littelfuse

Bourns

Schneider Electric

Mersen

Phoenix Contact

OBO Bettermann

LSP

Havells

nVent ERICO

HAKEL

Novaris

Citel

Zhejiang Benyi New Energy

Zhejiang Geya Electrical

Hangzhou Yizao Technology

Suntree

Guangxi Dikai Technology

Shenzhen Omrdon

Zhejiang Thor Electricity

Yueqing Jiemai Electric

Guangdong ZVSPD

Chengdu Pedaro Technology

Hangzhou e-lord

Zhuhai Leadtop Electronic

Beijing TOWE

Guangdong Ansun

Mindian Electric(MOREDAY)

Shanghai Angtle Electric

Changsha Leilixing Electronic

Guangdong Zhongpeng Lightning Protection Technology

Shenzhen Rex Lightning Protection Technology

Zhejiang Mingguan Electric

Anhui Jinli Electric Tech.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PV DC Surge Protective Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PV DC Surge Protective Devices, with price, sales quantity, revenue, and global market share of PV DC Surge Protective Devices from 2020 to 2025.

Chapter 3, the PV DC Surge Protective Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PV DC Surge Protective Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and PV DC Surge Protective Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PV DC Surge Protective Devices.

Chapter 14 and 15, to describe PV DC Surge Protective Devices sales channel, distributors, customers, research findings and conclusion.

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