

Global Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants market size was valued at US\$ 3244 million in 2024 and is forecast to a readjusted size of USD 4327 million by 2031 with a CAGR of 4.2% 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.

Surge protection devices for photovoltaic power plants are key components to ensure the safe operation of photovoltaic systems. They are designed to protect photovoltaic arrays, inverters and other electrical equipment from damage caused by lightning strikes and transient overvoltages in the power grid. These devices ensure the stability and reliability of the system by quickly responding to and discharging overvoltage energy. They can quickly respond to and suppress transient voltages of up to several thousand volts to prevent overvoltage from damaging sensitive electronic equipment. Some advanced models are equipped with status indicators or remote monitoring functions to facilitate real-time monitoring of the working status of the protection device and timely detection of potential problems.

This report is a detailed and comprehensive analysis for global Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants

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 Surge Protection Device for PV Power Plants 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

Surge Protection Device for PV Power Plants 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

AC Side SPD

DC Side SPD

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 Jiema 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 Surge Protection Device for PV Power Plants product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Surge Protection Device for PV Power Plants, with price, sales quantity, revenue, and global market share of Surge Protection Device for PV Power Plants from 2020 to 2025.

Chapter 3, the Surge Protection Device for PV Power Plants competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants 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 Surge Protection Device for PV Power Plants.

Chapter 14 and 15, to describe Surge Protection Device for PV Power Plants sales channel, distributors, customers, research findings and conclusion.

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