

Global DC Surge Protection Device 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 DC Surge Protection Device market size was valued at US\$ 1536 million in 2024 and is forecast to a readjusted size of USD 2312 million by 2031 with a CAGR of 6.2% during review period.

A DC surge protector is a safety device specially designed to protect DC electrical systems and equipment from voltage surges. It absorbs or diverts instantaneous overvoltage energy to prevent it from damaging sensitive electronic components. DC surge protectors are commonly used in solar photovoltaic systems, wind power generation systems, telecommunication base stations, and electric vehicle charging stations where DC power is used. Unlike AC surge protectors, DC surge protectors need to consider the unique characteristics of DC circuits, such as fixed current direction and no zero crossing, to ensure effective protection performance.

In the future, the development trend of DC surge protectors will pay more attention to high efficiency, intelligence and enhanced adaptability. On the one hand, with the popularization of renewable energy systems (such as solar and wind power), the demand for efficient and reliable DC surge protection has increased. Manufacturers are developing products with lower clamping voltage, faster response time and higher current resistance to provide more comprehensive protection. On the other hand, intelligence will become the mainstream. DC surge protectors will integrate intelligent monitoring functions, be able to monitor system status in real time and transmit data through the network, support remote diagnosis and early warning, and improve system maintenance efficiency and reliability. In addition, in order to adapt to different application scenarios and standard requirements, product design will also tend to be modular and standardized, easy to install, configure and upgrade, and meet diverse

market needs. These advances not only improve the safety of DC systems, but also provide guarantees for the realization of a wider range of clean energy applications.

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

Global DC Surge Protection Device 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 DC Surge Protection Device 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 DC Surge Protection Device 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 DC Surge Protection Device
- 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 DC Surge Protection Device 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, Alltec, Bourns,

Schneider Electric, Hitachi Energy, Raycap, Rockwell Automation, Analog Devices, Vishay, etc.

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

Market Segmentation

DC Surge Protection Device 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

Type 1 Surge Protection Device

Type 2 Surge Protection Device

Type 1+2 Surge Protection Device

Type 3 Surge Protection Device

Others

Market segment by Application

Residential

Commerical

Industrial

Major players covered

ABB

Eaton

Alltec

Bourns

Schneider Electric

Hitachi Energy

Raycap

Rockwell Automation

Analog Devices

Vishay

Siemens

Amphenol

Mersen

DEHN

Prosurge

CITEL

Aplicaciones Tecnol?gicas

ZJBENY

Havells

Phoenix Contact

Wenzhou Arrester Electric

Yueqing Feeo Electric

Shanghai Chenzhu Instrument

Suntree Electric

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 DC Surge Protection Device product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the DC Surge Protection Device 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 DC Surge Protection Device 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 DC Surge Protection Device.

Chapter 14 and 15, to describe DC Surge Protection Device sales channel, distributors, customers, research findings and conclusion.

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