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Global Photovoltaic System SPD Market Growth 2025-2031

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Abstracts

The global Photovoltaic System SPD market size is predicted to grow from US$ 3289 million in 2025 to US$ 4330 million in 2031; it is expected to grow at a CAGR of 4.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Photovoltaic system SPD is a surge protection device designed for photovoltaic power generation systems. It is used to prevent transient overvoltage caused by lightning strikes, grid failures or switch operations from damaging photovoltaic equipment. SPD is usually installed at key nodes such as the photovoltaic DC side, AC side and communication interface to effectively protect the safe operation of photovoltaic modules, inverters, junction boxes and control equipment. Photovoltaic systems are mostly located in high altitude, open or mountainous environments and are extremely susceptible to lightning strikes. SPD uses internal voltage-limiting components (such as varistors, gas discharge tubes, etc.) to instantly lead overvoltage to the ground wire, limit the port voltage rise rate, and thus reduce the risk of equipment breakdown.

United States market for Photovoltaic System SPD is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Photovoltaic System SPD is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Photovoltaic System SPD is estimated to increase from US$ million

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in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Photovoltaic System SPD players cover ABB, Eaton, Littelfuse, Bourns, Schneider Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Photovoltaic System SPD Industry Forecast” looks at past sales and reviews total world Photovoltaic System SPD sales in 2024, providing a comprehensive analysis by region and market sector of projected Photovoltaic System SPD sales for 2025 through 2031. With Photovoltaic System SPD sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Photovoltaic System SPD industry.

This Insight Report provides a comprehensive analysis of the global Photovoltaic System SPD landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Photovoltaic System SPD portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Photovoltaic System SPD market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic System SPD and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Photovoltaic System SPD.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic System SPD market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

AC Side SPD

DC Side SPD

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Segmentation by Application:

- Power Distribution Cabinet
- Photovoltaic Street Light
- Monitoring Equipment
- Photovoltaic Wind Power
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia

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- Europe
  - Germany
  - France
  - UK
  - Italy
  - Russia
- Middle East & Africa
  - Egypt
  - South Africa
  - Israel
  - Turkey
  - GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- ABB
- Eaton
- Littelfuse
- Bourns
- Schneider Electric

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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

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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.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photovoltaic System SPD market?
What factors are driving Photovoltaic System SPD market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Photovoltaic System SPD market opportunities vary by end market size?
How does Photovoltaic System SPD break out by Type, by Application?

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