

Global Onboard Surge Protection Device Market Growth 2025-2031

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Abstracts

The global Onboard Surge Protection Device market size is predicted to grow from US\$ 241 million in 2025 to US\$ 358 million in 2031; it is expected to grow at a CAGR of 6.8% 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.

The onboard surge protection device is an electronic component integrated on a circuit board to protect electronic equipment from transient overvoltages (such as lightning strikes, power system switch operations, electrostatic discharge, etc.). Its core function is to conduct shunt current in a very short time when a spike current or voltage is suddenly generated in an electrical circuit or communication line due to external interference, limit the overvoltage to below the safe level, and avoid damage to other devices in the circuit caused by surges.

Onboard surge protection devices have the characteristics of integrated design, fast response, low residual voltage, and high reliability. They are widely used in communication equipment (such as base stations, routers), industrial control systems, consumer electronics (such as smart home appliances, wearable devices), new energy equipment (such as photovoltaic inverters, wind turbines), and other fields.

United States market for Onboard Surge Protection Device 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 Onboard Surge Protection Device 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 Onboard Surge Protection Device is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Onboard Surge Protection Device players cover Eaton, Emerson, Shenzhen Ruilongyuan Electronics, Shenzhen Techwin Lightning Technologies, DG Ever First 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 "Onboard Surge Protection Device Industry Forecast" looks at past sales and reviews total world Onboard Surge Protection Device sales in 2024, providing a comprehensive analysis by region and market sector of projected Onboard Surge Protection Device sales for 2025 through 2031. With Onboard Surge Protection Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Onboard Surge Protection Device industry.

This Insight Report provides a comprehensive analysis of the global Onboard Surge Protection Device 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 Onboard Surge Protection Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Onboard Surge Protection Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Onboard Surge Protection Device 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 Onboard Surge Protection Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Onboard Surge Protection Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-mode

Multi-mode

Segmentation by Application:

Industrial Control System

Communication Equipments

Consumer Electronics

New Energy Equipments

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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.

Eaton

Emerson

Shenzhen Ruilongyuan Electronics

Shenzhen Techwin Lightning Technologies

DG Ever First Electric

SETfuse

Thor Electric

Hangzhou EYZAO Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Onboard Surge Protection Device market?

What factors are driving Onboard Surge Protection Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Onboard Surge Protection Device market opportunities vary by end market size?

How does Onboard Surge Protection Device break out by Type, by Application?

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