

Global PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay market size was valued at US\$ 272 million in 2024 and is forecast to a readjusted size of USD 361 million by 2031 with a CAGR of 4.2% during review period.

A PCB (Printed Circuit Board) mount DC output solid state relay (SSR) is an electronic switching device designed to control direct current (DC) loads. It is specifically designed to be mounted directly onto a printed circuit board, allowing for easy integration into electronic applications and control systems. PCB mount DC output SSRs use solid state technology, such as semiconductor devices, to perform switching actions without mechanical parts, making them reliable and durable alternatives to traditional electromechanical relays.

APAC occupied the largest market share. It is followed by North America and Europe. APAC is expected to be the fastest-growing market over the forecast period. Solid State Relay is becoming more indispensable in emerging markets. APAC countries such as China, India and Southeast Asia are expected to emerge as an attractive opportunity for vendors to venture during this period.

Industrial Automation: The growth of industrial automation and Industry 4.0 initiatives drives the demand for reliable switching solutions like SSRs, which are essential for precise control and monitoring in modern manufacturing processes.

HVAC and Building Automation: In building management systems and HVAC applications, SSRs provide energy-efficient control of heating and cooling systems,

lighting, and other electrical components.

Regulatory Compliance: Certain industries, such as aerospace and automotive, have strict regulatory requirements. SSRs must meet relevant safety and performance standards.

Heat Dissipation: SSRs generate heat during operation, and proper heat dissipation is essential to prevent overheating and ensure reliable performance.

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

Global PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay

To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global PCB Mount DC Output Solid State Relay 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 OMRON, IXYS, Toshiba, Sensata, Fujitsu Limited, Sharp, Vishay, Broadcom, OPTO22, Bright Toward, etc.

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

Market Segmentation

PCB Mount DC Output Solid State Relay 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 1A

1A to 5A

6A to 10A

11A to 16A

17A to 25A

Above 25A

Market segment by Application

Industrial Automation

Appliances

Building Automation

Others

Major players covered

OMRON

IXYS

Toshiba

Sensata

Fujitsu Limited

Sharp

Vishay

Broadcom

OPTO22

Bright Toward

Xiamen Jinxinrong Electronics

JiangSu Gold Electrical Control Technology

Carlo gavazzi

Wuxi Tianhao Electronics

Groupe Celduc

Shaanxi Qunli

Suzhou No.1 Radio Component

Clion Electric

Wuxi Solid

Suzhou Integrated Technology

Wuxi KangYu Electric Element

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 PCB Mount DC Output Solid State Relay product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCB Mount DC Output Solid State Relay, with price, sales quantity, revenue, and global market share of PCB Mount DC Output Solid State Relay from 2020 to 2025.

Chapter 3, the PCB Mount DC Output Solid State Relay competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay 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 PCB Mount DC Output Solid State Relay.

Chapter 14 and 15, to describe PCB Mount DC Output Solid State Relay sales channel, distributors, customers, research findings and conclusion.

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