

Global Industrial-grade Solid State Relay Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Industrial-grade Solid State Relay market size was valued at US\$ 427 million in 2025 and is forecast to a readjusted size of US\$ 613 million by 2032 with a CAGR of 5.4% during review period.

In 2024, global Industrial-grade Solid State Relay production reached approximately 26.22 million units , with an average global market price of around US\$ 15 per unit. The Industrial-grade Solid State Relay is a contactless electronic switch that achieves electrical isolation and signal transmission through semiconductor devices. It features high reliability and strong anti-interference, suitable for on-off switching of various circuits in industrial control fields.

As industrial automation and digitalization continue to advance, the demand for industrial-grade solid-state relays is poised to grow. Technological advancements are set to enhance the performance of these relays, including the integration of communication interfaces, improved diagnostic capabilities, and quicker response times, which will boost the profitability of manufacturers. To maintain competitiveness, companies will focus on reducing production costs through process optimization, material efficiency, and economies of scale. Adhering to stricter energy efficiency and safety standards will be a key trend, as will be the provision of customized solutions that integrate with other industrial components. The expansion of the global market will present new growth opportunities for companies to tap into international markets. Strategic partnerships with other industrial equipment manufacturers and software developers may lead to new business models and revenue streams. In the context of smart manufacturing, there will be an increased demand for solid-state relays that can integrate with IoT devices and provide real-time monitoring and control. A focus on

energy efficiency, environmental sustainability, and the longevity and reliability of the relays will be crucial as they are often used in critical industrial applications where downtime is not an option. Overall, the industrial-grade solid-state relay industry is evolving towards high efficiency, reliability, and sustainability, offering enterprises a broad profit margin.

This report is a detailed and comprehensive analysis for global Industrial-grade 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 Industrial-grade Solid State Relay market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Industrial-grade 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), 2021-2032

Global Industrial-grade 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), 2021-2032

Global Industrial-grade Solid State Relay market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Industrial-grade Solid State Relay

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 Industrial-grade 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 ABB, Eaton, Mitsubishi Electric, Fuji Electric, Panasonic, Crydom, OMRON, Carlo Gavazzi, TE Connectivity, Celduc, etc.

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

Market Segmentation

Industrial-grade Solid State Relay market is split by Type and by Application. For the period 2021-2032, 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 SSR

DC SSR

Market segment by Rated Current

Low-current Solid State Relay

Medium-current Solid State Relay

High-current Solid State Relay

Market segment by Package Type

Single-phase Solid State Relay

Three-phase Solid State Relay

Market segment by Application

Food

Plastics

Semiconductor

Electroplating

Others

Major players covered

ABB

Eaton

Mitsubishi Electric

Fuji Electric

Panasonic

Crydom

OMRON

Carlo Gavazzi

TE Connectivity

Celduc

Toshiba

Schneider

Siemens

Rockwell Automation

OPTO22

Vishay

Broadcom

Jiangsu Gold Electrical Control Technology

Toward Technologies

Wuxi Tianhao Electron

Shaanxi Qunli Electric

Zhejiang Meiger Electronic Appliance

DELIXI Electric

Xiamen Hongfa Automotive Electronics

Zhejiang Chint Electrics

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 Industrial-grade Solid State Relay product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial-grade Solid State Relay, with price, sales quantity, revenue, and global market share of Industrial-grade Solid State Relay from 2021 to 2026.

Chapter 3, the Industrial-grade Solid State Relay competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial-grade Solid State Relay breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Industrial-grade Solid State Relay market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Industrial-grade Solid State Relay.

Chapter 14 and 15, to describe Industrial-grade Solid State Relay sales channel, distributors, customers, research findings and conclusion.

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