

# Global Solid State Relays (SSR) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solid State Relays (SSR) market size is expected to reach \$ 1584 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2024, global Solid State Relays (SSR) production reached 0.97 billion units, with an average global market price of around US\$ 1.07 per unit. Solid-state relays (SSRs) operate in a manner similar to electromechanical relays, the key difference being that SSRs are non-contact devices. They use semiconductor switching elements—such as three-terminal bidirectional silicon controlled rectifiers (SCRs), thyristors, and power transistors—within their converter stage. The input signal applied to the SSR causes its output to transition from a non-conducting state to a conducting state, thereby opening or closing the load circuit. Unlike electromechanical relays, SSRs do not use a magnetic circuit to transmit the signal between input and output; instead, they rely on optical, capacitive, or electro-field coupling for electrical isolation. As a result, SSRs respond rapidly, exhibit high resistance to vibration and shock, switch silently, and are not adversely affected by dust, gases or other contaminants.

The solid-state relay industry has matured from replacing traditional electromechanical relays into a realm of high-performance electronic switching devices. In terms of product structure, SSRs can be classified by output type (AC vs DC), by power-device technology (SCR/TRIAC type, MOSFET type, IGBT/power-transistor type), and by mounting/installation style (PCB-mount, DIN-rail, panel/chassis-mount). On the application side, SSRs are widely used in industrial-automation equipment, OEM control systems, building-energy control, renewable-energy and storage systems, and electric-transportation systems—especially in scenarios demanding high switching frequency, high reliability and no mechanical contacts.

From the cost-structure and manufacturing standpoint, major cost components include the core power semiconductors (like MOSFETs, IGBTs, SCRs/TRIACs), the cooling and packaging systems, the driver and isolation circuitry, structural and mounting components (such as enclosures, terminals, PCBs), and testing/qualification certification. A typical full-automation production line may reach annual output on the order of millions to tens of millions of units, and the overall industry-level gross margin generally lies in the 25%–50% range.

In terms of industry chain structure, upstream encompasses power-device vendors, insulation/packaging material suppliers, heat-sink and thermal management component makers, and driver/isolation-IC suppliers. The mid-stream covers SSR module fabrication and full-system assembly. Downstream application groups include automation-equipment makers, renewable-energy system integrators, electric-mobility system suppliers and commercial-building system vendors. The competitive landscape is moderately consolidated: global leader brands leverage materials and integration technologies plus worldwide service networks to hold leading positions, while regional/local players compete strongly in standard-power segments and cost-sensitive markets.

Looking ahead, SSRs are advancing beyond mere replacements for mechanical relays and moving into high-frequency switching, wide-voltage operation, high-current capability and intelligent networked monitoring. With the acceleration of Industry 4.0, EV development, and renewable-energy deployment, demand for SSRs in high-voltage, high-current, rapid-switching and remote diagnosis networked settings will continue to rise. Manufacturers will increasingly compete via higher single-line throughput, optimized thermal management, modular design flexibility and connectivity/diagnostics capability.

This report studies the global Solid State Relays (SSR) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid State Relays (SSR) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solid State Relays (SSR) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Solid State Relays (SSR) total production and demand, 2021-2032, (Million

Units)

Global Solid State Relays (SSR) total production value, 2021-2032, (USD Million)

Global Solid State Relays (SSR) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Solid State Relays (SSR) consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Solid State Relays (SSR) domestic production, consumption, key domestic manufacturers and share

Global Solid State Relays (SSR) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Solid State Relays (SSR) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Solid State Relays (SSR) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Solid State Relays (SSR) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Panasonic, Crydom, OMRON, Carlo Gavazzi, Sharp, TE Connectivity, Groupe Celduc, IXYS, Toshiba, Fujitsu Limited, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solid State Relays (SSR) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solid State Relays (SSR) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solid State Relays (SSR) Market, Segmentation by Type:

PCB Mount

Panel Mount

Din Rail Mount

#### Global Solid State Relays (SSR) Market, Segmentation by Output Type:

AC Output

DC Output

#### Global Solid State Relays (SSR) Market, Segmentation by Power Devices Type:

MOSFET

IGBT

Bipolar Power Transistors

Thyristors

#### Global Solid State Relays (SSR) Market, Segmentation by Application:

Industrial Equipment

Home Appliance

Building Automation

Power & Energy

Others

#### Companies Profiled:

Panasonic

Crydom

OMRON

Carlo gavazzi

Sharp

TE Connectivity

groupe celduc

IXYS

Toshiba

Fujitsu Limited

Schneider

Siemens

Hongfa Technology

Rockwell Automation

OPTO22

Xiamen Jinxinrong Electronics

JiangSu GIOD Electrical Control Technology

Vishay

Broadcom

Clion Electric

Bright Toward

Wuxi Tianhao Electronics

Shaanxi Qunli

Zhejiang Chint Electrics

Wuxi Solid

COSMO

Suzhou Integrated Technology

**Key Questions Answered:**

1. How big is the global Solid State Relays (SSR) market?
2. What is the demand of the global Solid State Relays (SSR) market?

3. What is the year over year growth of the global Solid State Relays (SSR) market?
4. What is the production and production value of the global Solid State Relays (SSR) market?
5. Who are the key producers in the global Solid State Relays (SSR) market?
6. What are the growth factors driving the market demand?

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