

Global Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

The AC/DC control technology of Primary-Side-Regulation (PSR) Controllers is a new type of AC/DC control technology developed in the last 10 years. Eliminating these two chips and the set of components that work with them saves space on the system board, reduces cost and increases system reliability. It has broad application prospects in markets with high cost pressure such as mobile phone chargers, and markets with high volume requirements such as LED drivers.

Primary-Side-Regulation (PSR) Controllers market driver as below?

Improved Power Efficiency: Synchronous rectification technology enhances the efficiency of power conversion circuits by minimizing losses during rectification. As energy efficiency becomes a critical concern in various industries, the demand for SR controllers increases to optimize power conversion processes.

Growing Demand for Renewable Energy: The adoption of renewable energy sources like solar and wind power requires efficient power conversion and management. SR controllers play a crucial role in optimizing energy conversion and reducing losses in these systems.

Power Management in Data Centers: Data centers require advanced power

management solutions to optimize energy consumption and ensure reliable operations. SR controllers are used in power supply units to improve efficiency and reduce heat dissipation.

Electric Vehicle Charging: The electric vehicle (EV) charging infrastructure relies on efficient power conversion to minimize charging times and optimize energy transfer. SR controllers contribute to the efficiency of power converters used in EV charging stations.

Consumer Electronics Efficiency: In consumer electronics such as smartphones, laptops, and tablets, SR controllers enhance power efficiency, leading to longer battery life and improved overall performance.

Energy Storage Systems: Energy storage systems, including batteries and supercapacitors, require efficient power conversion for charging and discharging cycles. SR controllers help optimize these energy transfer processes.

Industrial Automation: Industrial automation systems require precise and efficient power management to ensure smooth operation and minimize downtime. SR controllers contribute to stable power delivery in industrial environments.

Green Initiatives and Regulations: Environmental regulations and sustainability initiatives encourage the adoption of energy-efficient technologies like SR controllers.

Advancements in Semiconductor Technology: Ongoing advancements in semiconductor technology allow for the development of more efficient and compact SR controllers, driving their adoption in various applications.

Smart Grid Integration: The integration of SR controllers in smart grids contributes to efficient power distribution, voltage regulation, and grid stability.

Telecommunications Infrastructure: SR controllers play a role in optimizing power conversion in telecommunications equipment and infrastructure, supporting efficient data transmission and communication.

Electric Power Generation and Distribution: In power generation and distribution systems, SR controllers contribute to efficient energy conversion, reducing losses and enhancing the overall performance of the grid.

Medical Devices and Healthcare: The healthcare industry relies on efficient power

management for medical devices and equipment. SR controllers help ensure reliable and precise energy conversion in medical applications.

IoT Devices and Edge Computing: With the rise of Internet of Things (IoT) devices and edge computing, efficient power management is crucial. SR controllers contribute to optimized energy utilization in these devices.

This report is a detailed and comprehensive analysis for global Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers
- 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 Primary-Side-Regulation (PSR) Controllers 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 Texas Instruments, NXP, Onsemi, Infineon, Richtek, Joulwatt, Global Semiconductor, Lishengmei Semiconductor, Reactor Microelectronics, Kiwi Instruments, etc.

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

Market Segmentation

Primary-Side-Regulation (PSR) Controllers 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

15W Below

15-30W

30W Above

Market segment by Application

Charger

Adapter

Others

Major players covered

Texas Instruments

NXP

Onsemi

Infineon

Richtek

Joulwatt

Global Semiconductor

Lishengmei Semiconductor

Reactor Microelectronics

Kiwi Instruments

Dongke semiconductor

WINSEMI

Silan Microelectronics

CXW Technology

Chipown Micro-electronics

Icm-Semi

UNIU

Fremont Micro Devices

Chip-Hope

Market segment by region, regional analysis covers

Global Primary-Side-Regulation (PSR) Controllers Market 2025 by Manufacturers, Regions, Type and Application,...

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 Primary-Side-Regulation (PSR) Controllers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Primary-Side-Regulation (PSR) Controllers, with price, sales quantity, revenue, and global market share of Primary-Side-Regulation (PSR) Controllers from 2020 to 2025.

Chapter 3, the Primary-Side-Regulation (PSR) Controllers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers 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 Primary-Side-Regulation (PSR) Controllers.

Chapter 14 and 15, to describe Primary-Side-Regulation (PSR) Controllers sales

channel, distributors, customers, research findings and conclusion.

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