

Global Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker market size was valued at US\$ 116 million in 2024 and is forecast to a readjusted size of USD 848 million by 2031 with a CAGR of 33.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Solid State Circuit Breakers (SSCBs) are modern electrical circuit protection devices that use power semiconductor components like IGBTs (Insulated Gate Bipolar Transistors), MOSFETs (Metal-Oxide-Semiconductor Field-Effect Transistors), or thyristors instead of traditional mechanical components. They offer faster response times, higher reliability, and enhanced functionality compared to conventional electromechanical circuit breakers. SSCBs are particularly well-suited for applications requiring precise control, quick fault detection, and minimal interruption times. Medium and low voltage SSCB's voltage range typically used in systems from 0 kV to 35 kV. Medium and low voltage SSCBs are often used in power distribution networks, industrial plants, renewable energy systems (like wind and solar farms), and microgrids. The global Medium and low voltage SSCB market sales reached US\$83 million in 2023 with a compound annual growth rate (CAGR) of 34% (2024-2030).

This report is a detailed and comprehensive analysis for global Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker
- 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 Medium and Low Voltage Solid State Circuit Breaker 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, Sun.King Technology Group Limited, TYT TEYON Longmarch Technology?TYT?, Fuji Electric FA Components & Systems, Siemens, Fullde Electric, Shanghai KingSi Power Co.,Ltd, Shandong Taikai High Voltage Switch Co., Ltd, GridMind, etc.

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

Market Segmentation

Medium and Low Voltage Solid State Circuit Breaker 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

Medium Voltage Circuit Breakers

Low Voltage Circuit Breaker

Market segment by Application

Industrial

Marine

Power Transmission

Electric Vehicle Charging

Others

Major players covered

ABB

Sun.King Technology Group Limited

TYT TEYON Longmarch Technology?TYT?

Fuji Electric FA Components & Systems

Siemens

Fullde Electric

Shanghai KingSi Power Co.,Ltd

Shandong Taikai High Voltage Switch Co., Ltd

GridMind

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 Medium and Low Voltage Solid State Circuit Breaker product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medium and Low Voltage Solid State

Circuit Breaker, with price, sales quantity, revenue, and global market share of Medium and Low Voltage Solid State Circuit Breaker from 2020 to 2025.

Chapter 3, the Medium and Low Voltage Solid State Circuit Breaker competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker 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 Medium and Low Voltage Solid State Circuit Breaker.

Chapter 14 and 15, to describe Medium and Low Voltage Solid State Circuit Breaker sales channel, distributors, customers, research findings and conclusion.

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