

Global Solid-state DC Breaker Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solid-state DC Breaker market size is expected to reach \$ 1000 million by 2032, rising at a market growth of 18.6% CAGR during the forecast period (2026-2032).

Solid-state DC Breaker is an advanced direct-current protection device that uses power semiconductor switching modules to interrupt DC fault current through high-speed electronic control rather than mechanical contact separation, enabling arc-free breaking, fast response, precise current limitation, and stable protection in high-power DC systems. Compared with conventional mechanical DC circuit breakers, its advantages lie in faster fault interruption, reduced contact wear, higher control accuracy, better thermal performance, longer service life, and stronger suitability for high-voltage and high-power DC applications. In 2025, production was approximately 850,000 units and the average price was USD 350 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 35%. Upstream, the key inputs include SiC MOSFET/JFET chips, DBC/AMB ceramic substrates, and packaging materials, with representative suppliers such as Wolfspeed, Infineon Technologies, and Rogers Corporation providing core wide-bandgap chips and high-performance substrate materials. The midstream segment focuses on solid-state DC interruption topology design, semiconductor module integration, drive and protection circuit design, insulation coordination, thermal structure optimization, fault-current interruption testing, arc-free switching strategy, reliability validation, and automated assembly, which together determine breaking speed, voltage and current endurance, heat dissipation, protection accuracy, safety reliability, and cost competitiveness. Downstream, Solid-state DC Breaker is mainly used in electric vehicles, microgrids, and data centers.

The solid-state DC breaker is a highly efficient, fast-acting circuit breaker designed specifically for DC systems, utilizing semiconductor devices to interrupt the current flow.

Unlike traditional mechanical DC breakers, which rely on moving parts to physically separate the contacts and extinguish arcs, solid-state DC breakers use power semiconductors such as Insulated Gate Bipolar Transistors (IGBTs), Metal-Oxide-Semiconductor Field-Effect Transistors (MOSFETs), or thyristors. These components enable the breaker to respond almost instantaneously to fault conditions, making them ideal for modern power systems with high-speed demands.

This report studies the global Solid-state DC Breaker production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-state DC Breaker 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 DC Breaker that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-state DC Breaker total production and demand, 2021-2032, (K Units)

Global Solid-state DC Breaker total production value, 2021-2032, (USD Million)

Global Solid-state DC Breaker production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solid-state DC Breaker consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solid-state DC Breaker domestic production, consumption, key domestic manufacturers and share

Global Solid-state DC Breaker production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solid-state DC Breaker production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solid-state DC Breaker production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solid-state DC Breaker 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 Siemens AG (Germany), Atom Power Inc. (USA), Eaton Corporation (Ireland), Sun.King Technology Group Limited (China), Astrol Electronic AG (Switzerland), Shenzhen HIITIO New Energy Co., Ltd. (China), Zhuhai Huizhong Energy Technology Co., Ltd. (China), Shanghai KingSi Power Technology

Co., Ltd. (China), Guangdong Simply Environment & Energy Technology Co., Ltd. (China), Mianyang Herui Electronics Co., Ltd. (China), 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 DC Breaker market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 DC Breaker Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-state DC Breaker Market, Segmentation by Type:

750V

1200V

1700V

Others

Global Solid-state DC Breaker Market, Segmentation by Current Direction:

Unidirectional DC Solid-State Circuit Breaker

Bidirectional DC Solid-State Circuit Breaker

Global Solid-state DC Breaker Market, Segmentation by Rated Current:

Current?16A

16A

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