

Global DC Circuit Breakers for PV Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DC Circuit Breakers for PV Inverter market size is expected to reach \$ 1300 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

DC Circuit Breakers for PV Inverter are direct-current protection devices designed for photovoltaic inverter systems, used to interrupt DC faults, isolate inverter-side circuits, and improve operational safety in photovoltaic power conversion. Compared with conventional AC circuit breakers or general low-voltage breakers, their advantages lie in stronger DC arc interruption capability, higher voltage endurance, better suitability for PV string and inverter-side protection, more stable operation under fluctuating solar generation, and improved safety for high-voltage DC systems. In 2025, production was approximately 50 million units and the average price was USD 16 per unit. The industry's capacity utilization rate in 2025 was about 65% and the average gross margin was around 25%. The upstream of DC Circuit Breakers for PV Inverter mainly includes silver alloy contacts and copper conductive parts, flame-retardant engineering plastic housings, and arc chute materials, with representative suppliers such as Umicore, Jiangxi Copper, and BASF providing contact materials, conductive copper materials, and high-performance insulation materials. Based on these key inputs, the midstream segment focuses on DC contact system design, conductive path optimization, arc-extinguishing chamber and arc chute structure design, insulation coordination, operating mechanism development, temperature-rise control, breaking performance testing, safety verification, and automated assembly. These capabilities determine DC arc interruption performance, voltage endurance, electrical life, installation compatibility, safety reliability, and cost competitiveness. Downstream, DC Circuit Breakers for PV Inverter are mainly used in photovoltaic power stations and commercial photovoltaic buildings.

DC Circuit Breakers for PV Inverters are critical components in photovoltaic (PV) solar energy systems. These breakers protect the direct current (DC) side of the system, particularly the connections between the solar panels, the inverter, and the battery storage, if applicable. DC circuit breakers are specifically designed to handle the unique challenges posed by DC circuits, which are prevalent in solar energy systems. They play an essential role in ensuring the safe operation of the entire PV system by preventing damage from overcurrents, short circuits, and other electrical faults.

This report studies the global DC Circuit Breakers for PV Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for DC Circuit Breakers for PV Inverter 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 DC Circuit Breakers for PV Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global DC Circuit Breakers for PV Inverter total production and demand, 2021-2032, (K Units)

Global DC Circuit Breakers for PV Inverter total production value, 2021-2032, (USD Million)

Global DC Circuit Breakers for PV Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global DC Circuit Breakers for PV Inverter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: DC Circuit Breakers for PV Inverter domestic production, consumption, key domestic manufacturers and share

Global DC Circuit Breakers for PV Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global DC Circuit Breakers for PV Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global DC Circuit Breakers for PV Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global DC Circuit Breakers for PV Inverter 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 Schneider Electric (France), ABB (Switzerland), Eaton (Ireland), Fuji Electric (Japan), Terasaki Electric (Japan), CHINT Electric (China), NOARK Electric (China), Delixi Electric (China), Shanghai Liangxin Electrical (China), Zhejiang Benyi New Energy (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 DC Circuit Breakers for PV Inverter 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 DC Circuit Breakers for PV Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DC Circuit Breakers for PV Inverter Market, Segmentation by Type:

125A

250A

630A

Others

Global DC Circuit Breakers for PV Inverter Market, Segmentation by Number of Poles:

1 Pole

2 Pole

3 Pole

4 Pole

Global DC Circuit Breakers for PV Inverter Market, Segmentation by Rated Voltage:

Voltage?600V DC

600V DC

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Figure 52. Voltage?600V DC

Figure 53. 600V DC

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