

Global DC Circuit Breakers for Solar Panel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global DC Circuit Breakers for Solar Panel 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 Solar Panel are direct-current protection devices designed for solar panel strings and photovoltaic module-side circuits, used to interrupt DC faults, isolate panel-side circuits, and improve operational safety in solar power generation systems. 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 solar panel string protection, more stable operation under fluctuating irradiation and generation conditions, and improved safety for high-voltage DC photovoltaic 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 Solar Panel 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 Solar Panel are mainly used in photovoltaic power stations and commercial photovoltaic buildings.

DC Circuit Breakers for Solar Panel will be shaped by the continued expansion of photovoltaic power generation and the rising safety requirements of high-voltage DC systems. In photovoltaic power stations, larger string capacity and higher DC voltage make reliable fault interruption and circuit isolation more important. In commercial photovoltaic buildings, compact installation, maintenance convenience, and stable protection under fluctuating irradiation become key selection factors. As solar panel systems move toward higher power density and wider distributed deployment, product competition will focus on DC arc interruption capability, voltage endurance, contact reliability, flame-retardant materials, installation compatibility, and long-term outdoor operating stability.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global DC Circuit Breakers for Solar Panel 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 Solar Panel 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 Solar Panel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global DC Circuit Breakers for Solar Panel Market, Segmentation by Type:

125A

250A

630A

Others

Global DC Circuit Breakers for Solar Panel Market, Segmentation by Number of Poles:

1 Pole

2 Pole

3 Pole

4 Pole

Global DC Circuit Breakers for Solar Panel Market, Segmentation by Rated Voltage:

Voltage?600V DC

600V DC

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Figure 51. World DC Circuit Breakers for Solar Panel Production Value Market Share by Rated Voltage in 2025

Figure 52. Voltage?600V DC

Figure 53. 600V DC

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