

Global Direct Current Arc Fault Circuit Interrupter (AFCI) Market Growth 2025-2031

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Abstracts

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The global Direct Current Arc Fault Circuit Interrupter (AFCI) market size is predicted to grow from US\$ 206 million in 2025 to US\$ 573 million in 2031; it is expected to grow at a CAGR of 18.6% from 2025 to 2031.

An Arc Fault Circuit Interrupter (AFCI) is a circuit breaker that breaks the circuit when it detects an electric arc in the circuit it protects to prevent electrical fires. An AFCI selectively distinguishes between a harmless arc (incidental to normal operation of switches, plugs, and brushed motors), and a potentially dangerous arc (that can occur, for example, in a lamp cord which has a broken conductor).

Global Direct Current Arc Fault Circuit Interrupter (AFCI) key players include Eaton, Siemens, ABB, etc. Global top three manufacturers hold a share about 80%.

North America is the largest market, with a share about 65%, followed by Europe, and China, both have a share about 30 percent.

In terms of product, Max. string voltage More Than 1000VDC is the largest segment, with a share nearly 80%. And in terms of application, the largest application is Solar Photovoltaics, followed by Commercial and Industrial, etc.

LP Information, Inc. (LPI) ' newest research report, the "Direct Current Arc Fault Circuit Interrupter (AFCI) Industry Forecast" looks at past sales and reviews total world Direct Current Arc Fault Circuit Interrupter (AFCI) sales in 2024, providing a comprehensive analysis by region and market sector of projected Direct Current Arc Fault Circuit

Interrupter (AFCI) sales for 2025 through 2031. With Direct Current Arc Fault Circuit Interrupter (AFCI) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Direct Current Arc Fault Circuit Interrupter (AFCI) industry.

This Insight Report provides a comprehensive analysis of the global Direct Current Arc Fault Circuit Interrupter (AFCI) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Direct Current Arc Fault Circuit Interrupter (AFCI) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Direct Current Arc Fault Circuit Interrupter (AFCI) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Direct Current Arc Fault Circuit Interrupter (AFCI) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Direct Current Arc Fault Circuit Interrupter (AFCI).

This report presents a comprehensive overview, market shares, and growth opportunities of Direct Current Arc Fault Circuit Interrupter (AFCI) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Max. string voltage Less Than 1000VDC

Max. string voltage More Than 1000VDC

Segmentation by Application:

Solar Photovoltaics

Commercial and Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Eaton

Siemens

ABB

SolarBOS

Santon

Fonrich

Key Questions Addressed in this Report

What is the 10-year outlook for the global Direct Current Arc Fault Circuit Interrupter (AFCI) market?

What factors are driving Direct Current Arc Fault Circuit Interrupter (AFCI) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Direct Current Arc Fault Circuit Interrupter (AFCI) market opportunities vary by end market size?

How does Direct Current Arc Fault Circuit Interrupter (AFCI) break out by Type, by Application?

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