

# Global Direct Current Arc Fault Circuit Interrupter (AFCI) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Direct Current Arc Fault Circuit Interrupter (AFCI) market size was valued at USD 156.4 million in 2023 and is forecast to a readjusted size of USD 473.1 million by 2030 with a CAGR of 17.1% during review period.

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.

The Global Info Research report includes an overview of the development of the Direct Current Arc Fault Circuit Interrupter (AFCI) industry chain, the market status of Solar Photovoltaics (Max. string voltage Less Than 1000VDC, Max. string voltage More Than 1000VDC), Commercial and Industrial (Max. string voltage Less Than 1000VDC, Max.

string voltage More Than 1000VDC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Direct Current Arc Fault Circuit Interrupter (AFCI).

Regionally, the report analyzes the Direct Current Arc Fault Circuit Interrupter (AFCI) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Direct Current Arc Fault Circuit Interrupter (AFCI) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Direct Current Arc Fault Circuit Interrupter (AFCI) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Direct Current Arc Fault Circuit Interrupter (AFCI) industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Max. string voltage Less Than 1000VDC, Max. string voltage More Than 1000VDC).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Direct Current Arc Fault Circuit Interrupter (AFCI) market.

**Regional Analysis:** The report involves examining the Direct Current Arc Fault Circuit Interrupter (AFCI) market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Direct Current Arc Fault Circuit Interrupter (AFCI)

market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Direct Current Arc Fault Circuit Interrupter (AFCI):

**Company Analysis:** Report covers individual Direct Current Arc Fault Circuit Interrupter (AFCI) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Direct Current Arc Fault Circuit Interrupter (AFCI) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Solar Photovoltaics, Commercial and Industrial).

**Technology Analysis:** Report covers specific technologies relevant to Direct Current Arc Fault Circuit Interrupter (AFCI). It assesses the current state, advancements, and potential future developments in Direct Current Arc Fault Circuit Interrupter (AFCI) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Direct Current Arc Fault Circuit Interrupter (AFCI) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Direct Current Arc Fault Circuit Interrupter (AFCI) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Max. string voltage Less Than 1000VDC

Max. string voltage More Than 1000VDC

#### Market segment by Application

Solar Photovoltaics

Commercial and Industrial

Others

#### Major players covered

Eaton

Siemens

ABB

SolarBOS

Santon

Fonrich

#### 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 Direct Current Arc Fault Circuit Interrupter (AFCI) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Direct Current Arc Fault Circuit Interrupter (AFCI), with price, sales, revenue and global market share of Direct Current Arc Fault Circuit Interrupter (AFCI) from 2019 to 2024.

Chapter 3, the Direct Current Arc Fault Circuit Interrupter (AFCI) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Direct Current Arc Fault Circuit Interrupter (AFCI) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Direct Current Arc Fault Circuit Interrupter (AFCI) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Direct Current Arc Fault Circuit Interrupter (AFCI).

Chapter 14 and 15, to describe Direct Current Arc Fault Circuit Interrupter (AFCI) sales channel, distributors, customers, research findings and conclusion.

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