

Global DC Circuit Breakers for PV Inverter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GDDCDCCEF707EN.html>

Date: July 2026

Pages: 105

Price: US\$ 3,480.00 (Single User License)

ID: GDDCDCCEF707EN

Abstracts

According to our (Global Info Research) latest study, the global DC Circuit Breakers for PV Inverter market size was valued at US\$ 823 million in 2025 and is forecast to a readjusted size of US\$ 1300 million by 2032 with a CAGR of 6.8% during review period.

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 is a detailed and comprehensive analysis for global DC Circuit Breakers for PV Inverter market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global DC Circuit Breakers for PV Inverter market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global DC Circuit Breakers for PV Inverter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global DC Circuit Breakers for PV Inverter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global DC Circuit Breakers for PV Inverter market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for DC Circuit Breakers for PV Inverter

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global DC Circuit Breakers for PV Inverter market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

DC Circuit Breakers for PV Inverter market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

125A

250A

630A

Others

Market segment by Number of Poles

1 Pole

2 Pole

3 Pole

4 Pole

Market segment by Rated Voltage

Voltage?600V DC

600V DC

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global DC Circuit Breakers for PV Inverter Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 125A

1.3.3 250A

1.3.4 630A

1.3.5 Others

1.4 Market Analysis by Number of Poles

1.4.1 Overview: Global DC Circuit Breakers for PV Inverter Consumption Value by Number of Poles: 2021 Versus 2025 Versus 2032

1.4.2 1 Pole

1.4.3 2 Pole

1.4.4 3 Pole

1.4.5 4 Pole

1.5 Market Analysis by Rated Voltage

1.5.1 Overview: Global DC Circuit Breakers for PV Inverter Consumption Value by Rated Voltage: 2021 Versus 2025 Versus 2032

1.5.2 Voltage?600V DC

1.5.3 600V DC

List Of Tables

LIST OF TABLES

Table 1. Global DC Circuit Breakers for PV Inverter Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global DC Circuit Breakers for PV Inverter Consumption Value by Number of Poles, (USD Million), 2021 & 2025 & 2032

Table 3. Global DC Circuit Breakers for PV Inverter Consumption Value by Rated Voltage, (USD Million), 2021 & 2025 & 2032

Table 4. Global DC Circuit Breakers for PV Inverter Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Schneider Electric (France) Basic Information, Manufacturing Base and Competitors

Table 6. Schneider Electric (France) Major Business

Table 7. Schneider Electric (France) DC Circuit Breakers for PV Inverter Product and Services

Table 8. Schneider Electric (France) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Schneider Electric (France) Recent Developments/Updates

Table 10. ABB (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 11. ABB (Switzerland) Major Business

Table 12. ABB (Switzerland) DC Circuit Breakers for PV Inverter Product and Services

Table 13. ABB (Switzerland) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. ABB (Switzerland) Recent Developments/Updates

Table 15. Eaton (Ireland) Basic Information, Manufacturing Base and Competitors

Table 16. Eaton (Ireland) Major Business

Table 17. Eaton (Ireland) DC Circuit Breakers for PV Inverter Product and Services

Table 18. Eaton (Ireland) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Eaton (Ireland) Recent Developments/Updates

Table 20. Fuji Electric (Japan) Basic Information, Manufacturing Base and Competitors

Table 21. Fuji Electric (Japan) Major Business

Table 22. Fuji Electric (Japan) DC Circuit Breakers for PV Inverter Product and Services

Table 23. Fuji Electric (Japan) DC Circuit Breakers for PV Inverter Sales Quantity (K

Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Fuji Electric (Japan) Recent Developments/Updates

Table 25. Terasaki Electric (Japan) Basic Information, Manufacturing Base and Competitors

Table 26. Terasaki Electric (Japan) Major Business

Table 27. Terasaki Electric (Japan) DC Circuit Breakers for PV Inverter Product and Services

Table 28. Terasaki Electric (Japan) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Terasaki Electric (Japan) Recent Developments/Updates

Table 30. CHINT Electric (China) Basic Information, Manufacturing Base and Competitors

Table 31. CHINT Electric (China) Major Business

Table 32. CHINT Electric (China) DC Circuit Breakers for PV Inverter Product and Services

Table 33. CHINT Electric (China) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. CHINT Electric (China) Recent Developments/Updates

Table 35. NOARK Electric (China) Basic Information, Manufacturing Base and Competitors

Table 36. NOARK Electric (China) Major Business

Table 37. NOARK Electric (China) DC Circuit Breakers for PV Inverter Product and Services

Table 38. NOARK Electric (China) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. NOARK Electric (China) Recent Developments/Updates

Table 40. Delixi Electric (China) Basic Information, Manufacturing Base and Competitors

Table 41. Delixi Electric (China) Major Business

Table 42. Delixi Electric (China) DC Circuit Breakers for PV Inverter Product and Services

Table 43. Delixi Electric (China) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Delixi Electric (China) Recent Developments/Updates

Table 45. Shanghai Liangxin Electrical (China) Basic Information, Manufacturing Base and Competitors

Table 46. Shanghai Liangxin Electrical (China) Major Business

Table 47. Shanghai Liangxin Electrical (China) DC Circuit Breakers for PV Inverter Product and Services

Table 48. Shanghai Liangxin Electrical (China) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Shanghai Liangxin Electrical (China) Recent Developments/Updates

Table 50. Zhejiang Benyi New Energy (China) Basic Information, Manufacturing Base and Competitors

Table 51. Zhejiang Benyi New Energy (China) Major Business

Table 52. Zhejiang Benyi New Energy (China) DC Circuit Breakers for PV Inverter Product and Services

Table 53. Zhejiang Benyi New Energy (China) DC Circuit Breakers for PV Inverter Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Zhejiang Benyi New Energy (China) Recent Developments/Updates

Table 55. Global DC Circuit Breakers for PV Inverter Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global DC Circuit Breakers for PV Inverter Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global DC Circuit Breakers for PV Inverter Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in DC Circuit Breakers for PV Inverter, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and DC Circuit Breakers for PV Inverter Production Site of Key Manufacturer

Table 60. DC Circuit Breakers for PV Inverter Market: Company Product Type Footprint

Table 61. DC Circuit Breakers for PV Inverter Market: Company Product Application Footprint

Table 62. DC Circuit Breakers for PV Inverter New Market Entrants and Barriers to Market Entry

Table 63. DC Circuit Breakers for PV Inverter Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global DC Circuit Breakers for PV Inverter Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global DC Circuit Breakers for PV Inverter Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global DC Circuit Breakers for PV Inverter Sales Quantity by Region
(2027-2032) & (K Units)

Table 67. Global DC Circuit Breakers for PV Inverter Consumption Value by Region
(2021-2026) & (USD Million)

Table 68. Global DC Circuit Breakers for PV Inverter Consumption Value by Region
(2027-2032) & (USD Million)

Table 69. Global DC Circuit Breakers for PV Inverter Average Price by Region
(2021-2026) & (US\$/Unit)

Table 70. Global DC Circuit Breakers for PV Inverter Average Price by Region
(2027-2032) & (US\$/Unit)

Table 71. Global DC Circuit Breakers for PV Inverter Sales Quantity by Type
(2021-2026) & (K Units)

Table 72. Global DC Circuit Breakers for PV Inverter Sales Quantity by Type
(2027-2032) & (K Units)

Table 73. Global DC Circuit Breakers for PV Inverter Consumption Value by Type
(2021-2026) & (USD Million)

Table 74. Global DC Circuit Breakers for PV Inverter Consumption Value by Type
(2027-2032) & (USD Million)

Table 75. Global DC Circuit Breakers for PV Inverter Average Price by Type
(2021-2026) & (US\$/Unit)

Table 76. Global DC Circuit Breakers for PV Inverter Average Price by Type
(2027-2032) & (US\$/Unit)

Table 77. Global DC Circuit Breakers for PV Inverter Sales Quantity by Application
(2021-2026) & (K Units)

Table 78. Global DC Circuit Breakers for PV Inverter Sales Quantity by Application
(2027-2032) & (K Units)

Table 79. Global DC Circuit Breakers for PV Inverter Consumption Value by Application
(2021-2026) & (USD Million)

Table 80. Global DC Circuit Breakers for PV Inverter Consumption Value by Application
(2027-2032) & (USD Million)

Table 81. Global DC Circuit Breakers for PV Inverter Average Price by Application
(2021-2026) & (US\$/Unit)

Table 82. Global DC Circuit Breakers for PV Inverter Average Price by Application
(2027-2032) & (US\$/Unit)

Table 83. North America DC Circuit Breakers for PV Inverter Sales Quantity by Type
(2021-2026) & (K Units)

Table 84. North America DC Circuit Breakers for PV Inverter Sales Quantity by Type
(2027-2032) & (K Units)

Table 85. North America DC Circuit Breakers for PV Inverter Sales Quantity by

Application (2021-2026) & (K Units)

Table 86. North America DC Circuit Breakers for PV Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America DC Circuit Breakers for PV Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America DC Circuit Breakers for PV Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America DC Circuit Breakers for PV Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America DC Circuit Breakers for PV Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe DC Circuit Breakers for PV Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe DC Circuit Breakers for PV Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe DC Circuit Breakers for PV Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Region (2021-2026) & (K Units)

Table 104. Asia-Pacific DC Circuit Breakers for PV Inverter Sales Quantity by Region (2027-2032) & (K Units)

Table 105. Asia-Pacific DC Circuit Breakers for PV Inverter Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific DC Circuit Breakers for PV Inverter Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America DC Circuit Breakers for PV Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 108. South America DC Circuit Breakers for PV Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 109. South America DC Circuit Breakers for PV Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 110. South America DC Circuit Breakers for PV Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 111. South America DC Circuit Breakers for PV Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 112. South America DC Circuit Breakers for PV Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 113. South America DC Circuit Breakers for PV Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America DC Circuit Breakers for PV Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Country (2021-2026) & (K Units)

Table 120. Middle East & Africa DC Circuit Breakers for PV Inverter Sales Quantity by Country (2027-2032) & (K Units)

Table 121. Middle East & Africa DC Circuit Breakers for PV Inverter Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa DC Circuit Breakers for PV Inverter Consumption Value by Country (2027-2032) & (USD Million)

Table 123. DC Circuit Breakers for PV Inverter Raw Material

Table 124. Key Manufacturers of DC Circuit Breakers for PV Inverter Raw Materials

Table 125. DC Circuit Breakers for PV Inverter Typical Distributors

Table 126. DC Circuit Breakers for PV Inverter Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. DC Circuit Breakers for PV Inverter Picture

Figure 2. Global DC Circuit Breakers for PV Inverter Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global DC Circuit Breakers for PV Inverter Revenue Market Share by Type in 2025

Figure 4. 125A Examples

Figure 5. 250A Examples

Figure 6. 630A Examples

Figure 7. Others Examples

Figure 8. Global DC Circuit Breakers for PV Inverter Revenue by Number of Poles, (USD Million), 2021 & 2025 & 2032

Figure 9. Global DC Circuit Breakers for PV Inverter Revenue Market Share by Number of Poles in 2025

Figure 10. 1 Pole Examples

Figure 11. 2 Pole Examples

Figure 12. 3 Pole Examples

Figure 13. 4 Pole Examples

Figure 14. Global DC Circuit Breakers for PV Inverter Revenue by Rated Voltage, (USD Million), 2021 & 2025 & 2032

Figure 15. Global DC Circuit Breakers for PV Inverter Revenue Market Share by Rated Voltage in 2025

Figure 16. Voltage?600V DC Examples

Figure 17. 600V DC

I would like to order

Product name: Global DC Circuit Breakers for PV Inverter Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/GDDCDCCEF707EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GDDCDCCEF707EN.html>