

Global DC Isolator for Solar Panels Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global DC Isolator for Solar Panels market size was valued at US\$ 1466 million in 2025 and is forecast to a readjusted size of US\$ 1991 million by 2032 with a CAGR of 4.9% during review period.

A solar panel DC isolator is a safety switching device utilized in photovoltaic (PV) systems; it serves to interrupt current flow within the DC circuit, thereby isolating PV modules from inverters or power distribution systems, and ensuring safety during system maintenance and operation.

The upstream segment of the industry consists of suppliers providing high-quality insulating materials, electronic components, and enclosure materials. The downstream segment comprises PV module manufacturers, inverter vendors, PV power plant integrators, and system operation and maintenance (O&M) firms, which are responsible for the selection, installation, and application of DC isolators within PV systems.

Globally, the average unit price for solar panel DC isolators stands at \$14 per unit, with global sales reaching approximately 101.8 million units. The industry's annual production capacity ranges from 150 million to 220 million units, and the sector maintains a profit margin of approximately 18%.

Looking ahead, as global PV installation capacity continues to grow and distributed PV systems become increasingly widespread, the demand for DC isolators is expected to rise steadily. High-voltage, high-current, and intelligent isolators are poised to become the mainstream, driven by the need to meet more stringent safety standards and requirements for remote monitoring. The industry is trending toward modular,

standardized, and high-reliability designs, while simultaneously placing greater emphasis on eco-friendly materials and green manufacturing processes. Market concentration on a global scale is expected to increase gradually; leading enterprises will enhance their competitiveness through technological innovation, product certification, and channel expansion, whereas small and medium-sized enterprises (SMEs) will secure their market share by focusing on customization and cost control.

This report is a detailed and comprehensive analysis for global DC Isolator for Solar Panels 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 Isolator for Solar Panels market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global DC Isolator for Solar Panels 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 Isolator for Solar Panels 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 Isolator for Solar Panels 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 Isolator for Solar Panels

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 Isolator for Solar Panels 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 ABB, Eaton, Schneider Electric, Siemens, Phoenix Contact, Tigo, Huawei, Sungrow, Growatt, Delixi, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

DC Isolator for Solar Panels 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

Internal Isolator

External Isolator

Market segment by Installation Method

Wall-mounted

Cabinet-mounted

Embedded

Market segment by Key Features

Single-channel Isolator

Multi-channel Isolator

Market segment by Application

Household

Industrial

Agricultural

Others

Major players covered

ABB

Eaton

Schneider Electric

Siemens

Phoenix Contact

Tigo

Huawei

Sungrow

Growatt

Delixi

Chint

Omron

Mitsubishi Electric

TDK Lambda

Mersen

ONCCY

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 DC Isolator for Solar Panels product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC Isolator for Solar Panels, with price, sales quantity, revenue, and global market share of DC Isolator for Solar Panels from 2021 to 2026.

Chapter 3, the DC Isolator for Solar Panels competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the DC Isolator for Solar Panels breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by

regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and DC Isolator for Solar Panels market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 DC Isolator for Solar Panels.

Chapter 14 and 15, to describe DC Isolator for Solar Panels sales channel, distributors, customers, research findings and conclusion.

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