

Global DC Optimizer 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 DC Optimizer market size was valued at USD 1375.7 million in 2023 and is forecast to a readjusted size of USD 6948.1 million by 2030 with a CAGR of 26.0% during review period.

A DC Optimizer (power optimizer) is a DC to DC converter technology developed to maximize the energy harvest from solar photovoltaic or wind turbine systems. They do this by individually tuning the performance of the panel or wind turbine through maximum power point tracking, and optionally tuning the output to match the performance of the string inverter (DC to AC inverter). Power optimizers are especially useful when the performance of the power generating components in a distributed system will vary widely, such as due to differences in equipment, shading of light or wind, or being installed facing different directions or widely separated locations.

A Power Optimizer is a DC-to-DC converter installed at the output of each module in the PV system. This device uses an MPPT technique considering the I-V curve, to improve performance on a module level. Unlike microinverters, power optimizers do not convert DC power into AC, which is why they require a string inverter to operate in what is known as an optimized string inverter configuration.

Optimizers turn each PV module in the system into smart-modules. These devices can set the voltage for the whole string, increasing the flexibility and size of the system, while also providing monitoring for each module. Some power optimizers include a SafeDC feature that brings down DC voltage to safe levels during power outages in grid-tied PV systems.

If partial shade is cast over the panel with the optimizer installed, the optimizer will

increase the panel's voltage while reducing the current. As already know, the voltage stays the same in a series string, and the currents add up.

The statistics in this report include module-level power optimizers and string-level power optimizers, excluding optimizer modules integrated in inverters, and excluding sub-module-level power optimizers.

Global 5 largest manufacturers of DC Optimizer are SolarEdge, Huawei, Tigo, Ampt and GNE, which make up over 95%. Among them, SolarEdge is the leader with about 85% market share.

Europe is the largest market, with a share over 50%, followed by Americas and Asia Pacific, with the share about 40% and 6%. In terms of product type, Module-level Optimizers occupy the largest share of the total market, over 97%. And in terms of application, the largest application is Residential, followed by Commercial and Industrial.

The Global Info Research report includes an overview of the development of the DC Optimizer industry chain, the market status of Residential (Module-level Optimizers, String-level Optimizers), Commercial and Industrial (Module-level Optimizers, String-level Optimizers), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of DC Optimizer.

Regionally, the report analyzes the DC Optimizer 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 DC Optimizer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the DC Optimizer 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 DC Optimizer 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 (MW), revenue generated, and market share of different by Type (e.g., Module-level Optimizers, String-level Optimizers).

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 DC Optimizer market.

Regional Analysis: The report involves examining the DC Optimizer 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 DC Optimizer market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to DC Optimizer:

Company Analysis: Report covers individual DC Optimizer 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 DC Optimizer This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Residential, Commercial and Industrial).

Technology Analysis: Report covers specific technologies relevant to DC Optimizer. It assesses the current state, advancements, and potential future developments in DC Optimizer areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the DC Optimizer 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

DC Optimizer 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

Module-level Optimizers

String-level Optimizers

Market segment by Application

Residential

Commercial and Industrial

Utility-Scale

Major players covered

SolarEdge

Huawei

Tigo

Ampt

Ferroamp

Alencon Systems

GNE

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 DC Optimizer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of DC Optimizer, with price, sales, revenue and global market share of DC Optimizer from 2019 to 2024.

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

Chapter 4, the DC Optimizer 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 DC Optimizer 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 DC Optimizer.

Chapter 14 and 15, to describe DC Optimizer sales channel, distributors, customers, research findings and conclusion.

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