

Global Distributed PV Inverter 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 Distributed PV Inverter market size was valued at US\$ 321 million in 2025 and is forecast to a readjusted size of US\$ 405 million by 2032 with a CAGR of 3.0% during review period.

In 2025, the global production volume of distributed-centralized PV inverters is projected to reach 17,341.67 MW, with an average selling price of \$18/kW. The global annual production capacity for distributed-centralized PV inverters stands at approximately 30,000 MW, with a gross margin of approximately 23.5%. The distributed-centralized PV inverter represents a novel PV inverter technology that combines the respective advantages of centralized inverters and string inverters. Its core characteristic is 'centralized inversion with distributed MPPT tracking'?specifically, by utilizing multiple upstream MPPT (Maximum Power Point Tracking) optimizers, it performs independent maximum power point tracking for multiple PV strings, thereby achieving distributed optimization. Subsequently, the optimized DC power is aggregated and uniformly converted into AC power for grid connection by a centralized inverter. This design not only retains the low-cost and high-reliability attributes of centralized inverters but also enhances power generation efficiency and mitigates module mismatch losses through distributed MPPT tracking, making it well-suited for complex environments such as large-scale ground-mounted PV power plants, mountainous regions, and deserts. The upstream segment of the distributed-centralized PV inverter industry comprises components such as power semiconductor devices, reactors, and sensors. The midstream segment consists of the manufacturers of distributed-centralized PV inverters, while the downstream segment primarily comprises large-scale ground-mounted PV power plants and commercial and industrial (C&I) distributed PV systems.

The market for distributed-centralized PV inverters has exhibited rapid growth in recent years. Driven by the PV industry's increasing demands for power generation efficiency, cost-effectiveness, and system flexibility, distributed-centralized inverters?by virtue of combining the advantages of both centralized and string inverters?are finding increasingly widespread application in scenarios such as large-scale ground-mounted PV power plants and projects situated in complex terrain. While the number of market participants continues to rise, technological iterations are accelerating, and product performance and reliability are constantly improving, overall market concentration remains relatively high, with leading enterprises commanding a significant share thanks to their accumulated technological expertise and economies of scale. Concurrently, supportive policies for renewable energy and the global expansion of installed PV capacity are providing sustained momentum for the continued growth of the distributed-centralized PV inverter market.

This report is a detailed and comprehensive analysis for global Distributed 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 Distributed PV Inverter market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Distributed PV Inverter market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Distributed PV Inverter market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2021-2032

Global Distributed PV Inverter market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 Distributed 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 Distributed 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 Hopewind Electric, BR SOLAR, Sineng Electric, KELONG, JEIYANG NEW ENERGY, Ingeteam, SMA, KACO, etc.

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

Market Segmentation

Distributed 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

100kW-500kW

500kW-1MW

?1MW

Market segment by Circuit Topology

Two-Level Distributed Inverter

Three-Level Distributed Inverter

Market segment by Grid Connection

Grid-Tied

Off-Grid

Market segment by Application

Large-scale Ground-mounted PV Power Plants

Commercial and Industrial Distributed PV

Major players covered

Hopewind Electric

BR SOLAR

Sineng Electric

KELONG

JEIYANG NEW ENERGY

Ingeteam

SMA

KACO

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 Distributed PV Inverter product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Distributed PV Inverter, with price, sales quantity, revenue, and global market share of Distributed PV Inverter from 2021 to 2026.

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

Chapter 4, the Distributed PV Inverter 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 Distributed PV Inverter 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 Distributed PV Inverter.

Chapter 14 and 15, to describe Distributed PV Inverter sales channel, distributors, customers, research findings and conclusion.

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