

Global Single-phase Microinverter Market Growth 2025-2031

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Abstracts

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The global Single-phase Microinverter market size is predicted to grow from US\$ 958 million in 2025 to US\$ 1510 million in 2031; it is expected to grow at a CAGR of 7.9% from 2025 to 2031.

A single-phase microinverter is a small, compact device used in solar photovoltaic (PV) systems to convert the direct current (DC) electricity generated by a single solar panel into alternating current (AC) electricity for use in homes or businesses. Microinverters are a type of power electronics equipment designed to maximize the energy output of individual solar panels, and they offer several advantages over traditional string inverters in certain scenarios.

Growth in Residential Solar: Single-phase microinverters have seen significant adoption in the residential solar market. The trend toward distributed solar power generation has driven demand for small-scale systems with individual panel optimization.

Increased Energy Yield: Microinverters are known for their ability to maximize energy yield by independently optimizing each solar panel's performance. As homeowners and businesses seek to maximize the energy production from their solar installations, single-phase microinverters continue to gain popularity.

String Inverter Replacements: In some cases, existing solar installations with string inverters are being retrofitted with microinverters to improve system performance, especially when dealing with shading issues, module mismatch, or varying panel orientations.

Monitoring and Data Analytics: The integration of advanced monitoring and data analytics features has become a standard offering for many single-phase microinverter manufacturers. This enables system owners to track system performance and identify issues in real-time.

LP Information, Inc. (LPI) ' newest research report, the “Single-phase Microinverter Industry Forecast” looks at past sales and reviews total world Single-phase Microinverter sales in 2024, providing a comprehensive analysis by region and market sector of projected Single-phase Microinverter sales for 2025 through 2031. With Single-phase Microinverter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Single-phase Microinverter industry.

This Insight Report provides a comprehensive analysis of the global Single-phase Microinverter landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Single-phase Microinverter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Single-phase Microinverter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-phase Microinverter and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Single-phase Microinverter.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-phase Microinverter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1-in-1 Microinverters

2-in-1 Microinverters

4-in-1 Microinverters

Segmentation by Application:

Residential

Commercial

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hoymiles

Sun Power Corporation

Delta Energy Systems

ABB Group

Enphase

SMA Solar Technology

Enphase Energy Inc

Solar Edge Technologies

P&P Energy Technology

Siemens

APsystems

Involar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-phase Microinverter market?

What factors are driving Single-phase Microinverter market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Single-phase Microinverter market opportunities vary by end market size?

How does Single-phase Microinverter break out by Type, by Application?

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