

Global Solar Storage Inverter Market Growth 2026-2032

<https://marketpublishers.com/r/GE7497305A48EN.html>

Date: July 2026

Pages: 125

Price: US\$ 3,660.00 (Single User License)

ID: GE7497305A48EN

Abstracts

The global Solar Storage Inverter market size is predicted to grow from US\$ 6652 million in 2025 to US\$ 9938 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

Solar Storage Inverter is a power conversion device that connects photovoltaic generation, energy storage batteries, household loads, and the grid, managing charge and discharge control, grid/off-grid switching, and safe power supply. Compared with conventional solar inverters, its advantages lie in two-way energy conversion, stronger battery coordination, faster response, better backup capability, and more flexible energy scheduling for solar storage scenarios. In 2025, production was approximately 3.4 million units and the average price was USD 2,000 per unit. The industry's capacity utilization rate in 2025 was about 55% and the average gross margin was around 30%. Upstream, the key inputs include power semiconductors such as IGBT and SiC MOSFET devices as well as magnetic components, with representative suppliers including Infineon Technologies, Wolfspeed, and TDK providing core power switching and electromagnetic conversion components. The midstream segment focuses on inverter topology design, bidirectional power conversion, battery communication, grid/off-grid control, thermal management, safety protection, software algorithms, certification testing, and system adaptation, which determine conversion efficiency, response speed, reliability, and user-side energy management performance. Downstream, Solar Storage Inverter is mainly used in residential, commercial, and utility solar energy storage systems, with representative customers including Sunrun, Sunnova Energy, and Tesla Energy.

Solar Storage Inverter is becoming the control core of solar-plus-storage systems rather than a simple conversion device. In residential applications, it determines backup

reliability, battery charging efficiency, and household energy scheduling. In commercial and utility scenarios, its value is reflected in peak-load control, grid interaction, and stable dispatch of stored solar power. As projects require higher safety, faster response, and better compatibility with batteries and grids, competition will move toward bidirectional conversion efficiency, thermal management, software algorithms, certification capability, and multi-scenario adaptability. Suppliers with strong power electronics design and system integration capability can gain stronger pricing resilience through higher-value energy management functions.

LP Information, Inc. (LPI) ' newest research report, the "Solar Storage Inverter Industry Forecast" looks at past sales and reviews total world Solar Storage Inverter sales in 2025, providing a comprehensive analysis by region and market sector of projected Solar Storage Inverter sales for 2026 through 2032. With Solar Storage Inverter sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Storage Inverter industry.

This Insight Report provides a comprehensive analysis of the global Solar Storage Inverter 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 Solar Storage Inverter portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Storage Inverter market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Storage Inverter 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 Solar Storage Inverter.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Storage Inverter market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

String Inverter

Central Inverter

Microinverters

Hybrid Inverters

Others

Segmentation by Output Phase:

Single-Phase Solar Inverter

Three-Phase Solar Inverter

Segmentation by MPPT Channels:

1 MPPT Channel

2 MPPT Channels

3 MPPT Channels

4 MPPT Channels

Segmentation by Application:

Residential Energy Storage System

Commercial Energy Storage System

Utility-Scale Energy Storage System

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.

Huawei (China)

Sungrow Power Supply (China)

Ginlong Technologies (China)

Growatt New Energy (China)

Sineng Electric (China)

GoodWe Technologies (China)

SMA Solar Technology (Germany)

Fronius International (Austria)

SolarEdge Technologies (Israel)

Enphase Energy (USA)

TMEIC (Japan)

Chint Power Systems (China)

Hoymiles Power Electronics (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Storage Inverter market?

What factors are driving Solar Storage Inverter market growth, globally and by region?

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

How do Solar Storage Inverter market opportunities vary by end market size?

How does Solar Storage Inverter break out by Type, by Application?

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