

Global Solar Storage Inverter Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Storage Inverter market size is expected to reach \$ 10273 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Solar Storage Inverter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Storage Inverter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar Storage Inverter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Storage Inverter total production and demand, 2021-2032, (K Units)

Global Solar Storage Inverter total production value, 2021-2032, (USD Million)

Global Solar Storage Inverter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solar Storage Inverter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solar Storage Inverter domestic production, consumption, key domestic manufacturers and share

Global Solar Storage Inverter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solar Storage Inverter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solar Storage Inverter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar Storage Inverter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Solar Storage Inverter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solar Storage Inverter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Storage Inverter Market, Segmentation by Type:

String Inverter

Central Inverter

Microinverters

Hybrid Inverters

Others

Global Solar Storage Inverter Market, Segmentation by Output Phase:

Single-Phase Solar Inverter

Three-Phase Solar Inverter

Global Solar Storage Inverter Market, Segmentation by MPPT Channels:

1 MPPT Channel

2 MPPT Channels

3 MPPT Channels

4 MPPT Channels

Global Solar Storage Inverter Market, Segmentation by Application:

Residential Energy Storage System

Commercial Energy Storage System

Utility-Scale Energy Storage System

Companies Profiled:

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 Answered:

1. How big is the global Solar Storage Inverter market?
2. What is the demand of the global Solar Storage Inverter market?
3. What is the year over year growth of the global Solar Storage Inverter market?
4. What is the production and production value of the global Solar Storage Inverter market?
5. Who are the key producers in the global Solar Storage Inverter market?
6. What are the growth factors driving the market demand?

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