

Global PV Inverter Data Loggers and Communication Gateways Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PV Inverter Data Loggers and Communication Gateways market size is expected to reach \$ 809 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

PV inverter data loggers and communication gateways are dedicated communication devices used to collect, aggregate, store, and transmit operating data from PV inverters and related plant equipment. They typically connect to inverters, electricity meters, energy storage systems, and environmental monitoring instruments through RS485, CAN, Ethernet, power line communication, or proprietary wireless links, and upload voltage, current, power, energy yield, operating status, and fault alarm data to local monitoring systems or cloud platforms through Wi-Fi, Ethernet, or 4G networks. Some products also provide protocol conversion, remote configuration, firmware upgrades, power regulation, and zero-export control. Major product types include plug-in communication sticks, centralized data loggers, microinverter gateways, and plant-level communication gateways. Key upstream inputs include PCBs, microcontrollers, memory devices, communication chips and modules, power management ICs, isolation components, connectors, antennas, and engineering-plastic or metal enclosures. Major downstream customers include PV inverter and microinverter manufacturers, EPC contractors, system integrators, installers, plant owners, and third-party O&M service providers. The global effective production capacity in 2025 is estimated at approximately 14.8 million units, with actual sales of around 10.875 million units, a weighted average ex-factory price of approximately USD 50.5 per unit, and an industry gross margin of about 28%-40%.

Demand for PV inverter data loggers and communication gateways is expected to

maintain steady growth as global PV installations continue to expand. Increasing requirements for operating data visualization, remote monitoring, and fault warning across residential, commercial and industrial, and utility-scale PV projects are driving these devices beyond basic data transmission toward integrated communication terminals combining data acquisition, protocol conversion, local storage, and remote O&M. Digital retrofits and equipment replacement at existing PV plants are also creating additional opportunities for third-party multi-brand gateways and plant-level data logging systems.

Product development is moving toward broader protocol compatibility, wireless connectivity, platform integration, and intelligent functions. In addition to conventional RS485 and Ethernet connections, Wi-Fi, 4G, power line communication, and proprietary wireless protocols are becoming more widely adopted, while some products support automatic network switching and offline data buffering. As PV systems are increasingly integrated with energy storage, electricity meters, environmental monitoring equipment, and charging infrastructure, communication gateways must support a wider range of devices and protocols and are gradually taking on functions such as power regulation, zero-export control, equipment coordination, and edge computing.

The competitive landscape remains dominated by inverter manufacturers that provide dedicated communication accessories, while specialist data logger and third-party gateway suppliers mainly serve multi-brand equipment integration, existing plant retrofits, and complex commercial and industrial projects. Large inverter vendors benefit from closed ecosystems combining hardware, cloud platforms, and after-sales services, giving them a strong position in new installations. Specialist suppliers differentiate themselves through open protocols, cross-brand compatibility, and flexible deployment. Future competition will increasingly focus on device compatibility, platform reliability, data security, and remote O&M capabilities rather than hardware price alone.

Industry development is still constrained by inconsistent product standards, fragmented communication protocols, and relatively low hardware value. Some communication sticks are bundled with inverters, making independent market size and shipment volumes difficult to separate accurately. Differences in wireless communication standards, grid-control requirements, and data-security regulations across regions also increase certification and localization costs. As standard protocols such as SunSpec and Modbus gain wider adoption and PV plant digitalization advances, product interoperability and standardization are expected to improve, while market concentration gradually shifts toward suppliers with integrated hardware and software capabilities, reliable cloud platforms, and global service networks.

Report Scope

This report studies the global PV Inverter Data Loggers and Communication Gateways production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PV Inverter Data Loggers and Communication Gateways 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 PV Inverter Data Loggers and Communication Gateways that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PV Inverter Data Loggers and Communication Gateways total production and demand, 2021-2032, (K Units)

Global PV Inverter Data Loggers and Communication Gateways total production value, 2021-2032, (USD Million)

Global PV Inverter Data Loggers and Communication Gateways production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PV Inverter Data Loggers and Communication Gateways consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PV Inverter Data Loggers and Communication Gateways domestic production, consumption, key domestic manufacturers and share

Global PV Inverter Data Loggers and Communication Gateways production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PV Inverter Data Loggers and Communication Gateways production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PV Inverter Data Loggers and Communication Gateways production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PV Inverter Data Loggers and Communication Gateways 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 Technologies, Sungrow Power Supply, Enphase Energy, SolarEdge

Technologies, SMA Solar Technology, Fronius International, GoodWe Technologies, Growatt New Energy, Ginlong Technologies, SolaX Power, 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 PV Inverter Data Loggers and Communication Gateways 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 PV Inverter Data Loggers and Communication Gateways Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PV Inverter Data Loggers and Communication Gateways Market, Segmentation by Type:

Plug-in

Centralized

Microinverter Gateway

Other

Global PV Inverter Data Loggers and Communication Gateways Market, Segmentation by Uplink Connectivity:

Wired

Wireless

Hybrid

Global PV Inverter Data Loggers and Communication Gateways Market, Segmentation by Inverter Architecture:

String Inverter Systems

Central Inverter Systems

Microinverter Systems

Global PV Inverter Data Loggers and Communication Gateways Market, Segmentation by Application:

Residential PV

Commercial and Industrial PV

Utility-scale PV

Companies Profiled:

Huawei Technologies

Sungrow Power Supply

Enphase Energy

SolarEdge Technologies

SMA Solar Technology

Fronius International

GoodWe Technologies

Growatt New Energy

Ginlong Technologies

SolaX Power

Hoymiles Power Electronics

Yuneng Technology

Kehua Tech

IGEN Tech

Delta Electronics

Guangzhou Sanjing Electric

Solar-Log

meteocontrol

Webdyn

Key Questions Answered:

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

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