

# Global Solar PV Balance of System (BOS) Components Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Solar PV Balance of System (BOS) Components market size is expected to reach \$ 181472 million by 2032, rising at a market growth of 11.0% CAGR during the forecast period (2026-2032).

In 2025, global Solar PV Balance of System (BOS) Components production reached approximately 845 million units, with an average global market price of around US \$100 per unit. Annual production capacity is 1 billion units. Gross Profit Margin: 37%. Solar PV Balance of System (BOS) Components refer to all the auxiliary equipment and infrastructure required to support a photovoltaic power generation system apart from the solar panels themselves. The Solar PV BOS industry chain begins with upstream suppliers producing electrical components such as semiconductors, aluminum structures, cables, transformers, and control electronics. Midstream manufacturers assemble and integrate these components into inverters, mounting systems, monitoring platforms, and electrical protection equipment. Downstream stakeholders include solar EPC contractors, project developers, and utility operators who integrate BOS components into residential rooftop systems, commercial installations, and large-scale solar farms. Solar PV Balance of System (BOS) components are becoming one of the most strategically important segments of the photovoltaic industry.

This report studies the global Solar PV Balance of System (BOS) Components production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar PV Balance of System (BOS) Components 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 PV Balance of System (BOS) Components that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Solar PV Balance of System (BOS) Components total production and demand, 2021-2032, (K Units)

Global Solar PV Balance of System (BOS) Components total production value, 2021-2032, (USD Million)

Global Solar PV Balance of System (BOS) Components production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solar PV Balance of System (BOS) Components consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solar PV Balance of System (BOS) Components domestic production, consumption, key domestic manufacturers and share

Global Solar PV Balance of System (BOS) Components production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solar PV Balance of System (BOS) Components production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solar PV Balance of System (BOS) Components production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar PV Balance of System (BOS) Components 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 ABB (SIX: ABBN, Switzerland), Schneider Electric (EPA: SU, France), Siemens (ETR: SIE, Germany), Eaton (NYSE: ETN, Ireland), General Electric (NYSE: GE, USA), SMA Solar Technology (ETR: S92, Germany), FIMER (Italy), TMEIC (Japan), Huawei (China), Sungrow Power Supply (SZSE: 300274, China), 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 PV Balance of System (BOS) Components 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 PV Balance of System (BOS) Components Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Solar PV Balance of System (BOS) Components Market, Segmentation by Type:

Inverters

Mounting & Racking Systems

DC & AC Cabling

Combiner Boxes

Junction Boxes

Monitoring & Control Systems

Transformers

Switchgear & Protection Devices

Energy Storage Integration Components

Global Solar PV Balance of System (BOS) Components Market, Segmentation by System:

Grid-Connected PV Systems

Off-Grid PV Systems

Hybrid Solar Systems

Global Solar PV Balance of System (BOS) Components Market, Segmentation by Installation:

Residential Rooftop

Commercial & Industrial (C&I)

Utility-Scale Solar Farms

Global Solar PV Balance of System (BOS) Components Market, Segmentation by Application:

Residential

Commercial Buildings

Industrial Facilities

Utilities & Power Generation

**Companies Profiled:**

ABB (SIX: ABBN, Switzerland)

Schneider Electric (EPA: SU, France)

Siemens (ETR: SIE, Germany)

Eaton (NYSE: ETN, Ireland)

General Electric (NYSE: GE, USA)

SMA Solar Technology (ETR: S92, Germany)

FIMER (Italy)

TMEIC (Japan)

Huawei (China)

Sungrow Power Supply (SZSE: 300274, China)

Ginlong Technologies (SZSE: 300763, China)

SolarEdge Technologies (NASDAQ: SEDG, Israel)

Trina Solar (SSE: 688599, China)

JA Solar (SZSE: 002459, China)

LONGi Green Energy (SSE: 601012, China)

**Key Questions Answered:**

1. How big is the global Solar PV Balance of System (BOS) Components market?
2. What is the demand of the global Solar PV Balance of System (BOS) Components market?
3. What is the year over year growth of the global Solar PV Balance of System (BOS) Components market?

4. What is the production and production value of the global Solar PV Balance of System (BOS) Components market?
5. Who are the key producers in the global Solar PV Balance of System (BOS) Components market?
6. What are the growth factors driving the market demand?

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