

# Global Balcony Photovoltaic System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Balcony Photovoltaic System market size is expected to reach \$ 42363 million by 2032, rising at a market growth of 25.7% CAGR during the forecast period (2026-2032).

In 2025, global Balcony Photovoltaic System production reached approximately 7.52 million units, with an average global market price of around US\$1.1k per unit.

A Balcony Photovoltaic System is a small-scale distributed solar power generation system designed to be installed on residential balconies, terraces, or building facades. The system typically consists of photovoltaic panels, a micro-inverter, mounting brackets, cables, and monitoring modules. It converts solar energy into electricity and feeds it directly into the household circuit through a plug-and-play connection. Compared with conventional rooftop solar systems, balcony PV systems are easier to install, more affordable, and suitable for apartment dwellers or renters, making them increasingly popular in Europe and other urban regions.

The industry chain of balcony photovoltaic systems includes upstream raw materials and component suppliers, midstream system integrators and manufacturers, and downstream application markets. Upstream segments involve photovoltaic cells, silicon wafers, aluminum mounting structures, micro-inverters, and electrical cables. Representative suppliers include photovoltaic module manufacturers such as LONGi Green Energy, JinkoSolar, Tongwei, and Trina Solar, as well as micro-inverter manufacturers like Hoymiles, Enphase, and Deye. The midstream consists of system integrators and kit manufacturers that assemble components into plug-and-play balcony PV systems, including companies such as EcoFlow, Anker SOLIX, Sunshare, and Marstek. Downstream applications mainly include residential apartments, rental

housing, and small urban households seeking self-consumption renewable energy solutions, with Europe—especially Germany, the Netherlands, and France—being major markets.

Balcony photovoltaic systems have emerged as a small-scale distributed energy solution designed primarily for urban residential users and have gained increasing attention, particularly in European markets. As urbanization continues to expand, many apartment residents lack access to rooftops suitable for traditional solar installations. Balcony PV systems provide an alternative by offering easy installation, plug-and-play functionality, and relatively low upfront investment, allowing more households to participate in the energy transition. At present, the market is still in a growth stage, with most products sold as integrated kits resembling consumer electronic products. A growing number of energy companies, energy storage providers, and consumer electronics brands are entering the market, intensifying competition. From a development perspective, products are gradually evolving toward higher-efficiency solar modules, smarter energy management systems, and deeper integration with residential energy storage solutions. At the same time, manufacturers are emphasizing aesthetic design, modular structures, and convenient installation to better suit residential environments. Key drivers of market growth include the global energy transition, rising residential electricity prices, increasing adoption of distributed energy systems, and growing consumer interest in sustainable lifestyles. Technological advancements and declining costs of micro-inverters and battery storage are also enhancing the attractiveness of these systems. Nevertheless, the market faces several challenges, including complex grid-connection regulations and certification requirements in some regions, building and property management constraints, and cautious consumer attitudes regarding product reliability and payback periods. Overall, with improving policy frameworks and continued technological innovation, balcony photovoltaic systems are expected to play an increasingly important role in urban residential energy solutions.

This report studies the global Balcony Photovoltaic System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Balcony Photovoltaic System 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 Balcony Photovoltaic System that contribute to its increasing demand across many markets.

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

Global Balcony Photovoltaic System total production and demand, 2021-2032, (K Units)

Global Balcony Photovoltaic System total production value, 2021-2032, (USD Million)

Global Balcony Photovoltaic System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Balcony Photovoltaic System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Balcony Photovoltaic System domestic production, consumption, key domestic manufacturers and share

Global Balcony Photovoltaic System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Balcony Photovoltaic System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Balcony Photovoltaic System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Balcony Photovoltaic System 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 EcoFlow, Sunshare, Marstek, Zendure, Hoymiles, Vigorpool, Hoymiles, Ecosolex, Apsystems, Sungold Solar, 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 Balcony Photovoltaic System 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 Balcony Photovoltaic System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Balcony Photovoltaic System Market, Segmentation by Type:

300W-450W

450W-600W

Above 600W

#### Global Balcony Photovoltaic System Market, Segmentation by System Architecture:

Single-Component System

Dual-Component System

Multi-Component System

#### Global Balcony Photovoltaic System Market, Segmentation by Energy Storage Configuration:

No Energy Storage

With Energy Storage

Global Balcony Photovoltaic System Market, Segmentation by Application:

Ordinary Residential

High-End Residential

Companies Profiled:

EcoFlow

Sunshare

Marstek

Zendure

Hoymiles

Vigorpool

Hoymiles

Ecosolex

Apsystems

Sungold Solar

Bluetti

Hiitio

ANTAI Solar

SDO Energy Tech

Growatt

DAH Solar

Tsun

Anker SOLIX

Foner Solar

Must Power

Hamedata

**Key Questions Answered:**

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

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