

Global Solar-Powered Generator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar-Powered Generator market size is expected to reach \$ 6279 million by 2032, rising at a market growth of 16.9% CAGR during the forecast period (2026-2032). The solar-powered generator is a type of portable energy system that uses a solar panel to charge a built-in lithium-ion battery. It integrates an inverter and various output ports, allowing it to convert and store solar energy for use. This system provides a clean, sustainable power source for smartphones, laptops, lights, and small appliances. Its key features include high energy density, a long lifespan, and a lightweight design, making it an ideal choice for outdoor activities, emergency backup power, and off-grid living. In 2025, production was approximately 6.27 million units and the average price was USD 330 per unit. The industry's capacity utilization rate in 2025 was about 70%, and the average gross margin was around 41%. Upstream, the core inputs are lithium-ion battery cells and photovoltaic modules, with representative suppliers including CATL, BYD, EVE Energy, LONGi, JinkoSolar, Trina Solar, and First Solar, which provide critical storage units and power-generation components. The midstream segment encompasses system architecture design, battery management and safety strategies, power conversion and electrical integration, thermal management, software control, certification testing, and productization with quality management, translating performance targets into scalable delivery and controllable lifecycle cost. Downstream sales are primarily conducted through online and offline channels.

The solar-powered generator market is poised for significant growth, driven by increasing global demand for sustainable energy. The rise of outdoor recreational activities like camping, RV travel, and adventure sports is creating a massive need for portable and eco-friendly power sources. Compared to traditional fuel generators, solar-powered generators offer key advantages, including silent operation, zero emissions, and lower maintenance costs, making them the preferred choice for consumers and broadening their application in the consumer market. Furthermore, as global climate

change leads to more frequent extreme weather and natural disasters, the value of these products for emergency backup and residential off-grid power is becoming increasingly apparent. Supportive government green energy policies, technological advancements, and falling costs are also accelerating the global adoption of solar-powered generators, providing a solid foundation for continued industry growth. This report studies the global Solar-Powered Generator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar-Powered Generator 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-Powered Generator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar-Powered Generator total production and demand, 2021-2032, (K Units)

Global Solar-Powered Generator total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Solar-Powered Generator domestic production, consumption, key domestic manufacturers and share

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

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

Global Solar-Powered Generator production by Sales Channel, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar-Powered Generator 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, Shenzhen Hello Tech Energy, GOAL ZERO, Shenzhen Poweroak Newener, Allpowers, DBK Electronics, ANKER, ANKER, Pisen, JVC, 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-Powered Generator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, and by Sales Channel. 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-Powered Generator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar-Powered Generator Market, Segmentation by Type:

?500Wh

500-1000Wh

?1000Wh

Global Solar-Powered Generator Market, Segmentation by Output Power:

?500W

500W-1000W

1000W-3000W

Others

Global Solar-Powered Generator Market, Segmentation by Protection:

IP54

IP65

Others

Global Solar-Powered Generator Market, Segmentation by Sales Channel:

Online

Offline

Companies Profiled:

EcoFlow

Shenzhen Hello Tech Energy

GOAL ZERO

Shenzhen Poweroak Newener

Allpowers

DBK Electronics

ANKER

ANKER

Pisen

JVC

SBASE

Letsolar

YOOBAO

Newsmy

ORICO Technologies

FlashFish

Pecron

Key Questions Answered:

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

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