

Global Portable Solar Energy Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Portable Solar Energy Storage System market size is expected to reach \$ 5901 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

Portable Solar Energy Storage System is a portable energy storage product that integrates lithium battery storage, solar charging compatibility, power conversion, output control, and safety protection to provide mobile electricity for outdoor activities, emergency backup, mobile work, and small off-grid power scenarios. Compared with ordinary portable power products, it offers stronger renewable energy adaptability, longer outdoor operating time, broader device compatibility, better safety protection, and smarter energy management. In 2025, production was approximately 5.55 million units and the average price was USD 373 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 43%. Upstream, the key inputs include battery cells, inverters and power modules, PCBs, and power management chips, with representative suppliers such as CATL, BYD, EVE Energy, LG Energy Solution, Panasonic, Infineon Technologies, Texas Instruments, STMicroelectronics, Shenzhen Suntak Circuit Technology, and Kinwong Electronic providing core energy storage, power conversion, and electronic control components. The midstream segment focuses on lithium battery pack integration, solar charging interface design, inverter system development, battery management system optimization, thermal management, structural design, safety protection, software control, and certification testing, which determine charging efficiency, output stability, portability, safety, and user experience. Downstream, Portable Solar Energy Storage System is mainly sold through online and offline sales channels, with representative channel companies including Amazon, Walmart, Costco, Target, Best Buy, Home Depot, JD.com, Tmall, and Rakuten.

Portable Solar Energy Storage System is increasingly positioned around off-grid energy autonomy rather than simple mobile power supply. In camping, household emergency backup, outdoor work, and small distributed power scenarios, its value comes from combining solar charging with lithium energy storage to extend operating time and reduce reliance on fixed power access. Future demand will be shaped by outdoor lifestyle expansion, disaster preparedness, solar accessory ecosystems, and smarter energy management, with product design moving toward lighter structures, faster solar charging, safer batteries, and stronger multi-device compatibility.

This report studies the global Portable Solar Energy Storage System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Portable Solar Energy Storage System total production and demand, 2021-2032, (K Units)

Global Portable Solar Energy Storage System total production value, 2021-2032, (USD Million)

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

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

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

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

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

Global Portable Solar Energy Storage System production by Sales Channel, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Portable Solar Energy Storage 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 (China), Shenzhen Hello Tech Energy (China), PowerOak (China), GOAL ZERO (USA), JVC (Japan), Allpowers Industrial International Limited (China), Westinghouse (USA), Shenzhen DBK Electronics (China), Pisen (China), ANKER (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 Portable Solar Energy Storage 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 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 Portable Solar Energy Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Portable Solar Energy Storage System Market, Segmentation by Type:

Below 500Wh

500Wh-1000Wh

Above 1000Wh

Global Portable Solar Energy Storage System Market, Segmentation by Output Power:

Output Power?1kW

1KW?Output Power?2KW

2KW?Output Power?3KW

Others

Global Portable Solar Energy Storage System Market, Segmentation by Battery:

NMC Battery

LFP Battery

Others

Global Portable Solar Energy Storage System Market, Segmentation by Sales Channel:

Online Sales

Offline Sales

Companies Profiled:

EcoFlow (China)

Shenzhen Hello Tech Energy (China)

PowerOak (China)

GOAL ZERO (USA)

JVC (Japan)

Allpowers Industrial International Limited (China)

Westinghouse (USA)

Shenzhen DBK Electronics (China)

Pisen (China)

ANKER (China)

YOOBAO (China)

Zendure (USA)

K?nner & S?hnen (Germany)

Key Questions Answered:

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

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