

Global Solar Battery Frame Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Battery Frame market size is expected to reach \$ 12585 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

In 2025, global Solar Battery Frame in Automotive production reached approximately 2345 k tons, with an average global market price of around US\$3049 usd per ton. The production capacity for Solar Battery Frame in 2025 was approximately 2500 k tons. The typical gross profit margin for Solar Battery Frame is between 20% and 40%. A Solar Battery Frame is a structural support component designed to house, protect, and secure battery cells or battery modules used in solar energy storage systems. It provides mechanical strength, alignment, and environmental protection while supporting thermal management and electrical safety requirements. Solar battery frames are typically made from aluminum alloys or steel and are used in residential, commercial, and utility-scale solar battery systems to ensure durability, safety, and reliable long-term operation under outdoor or harsh environmental conditions.

The Solar Battery Frame market refers to the market for structural frames and enclosures used to support, protect, and integrate battery systems in solar energy storage applications. These frames are typically made from aluminum alloys, steel, or composite materials and are designed to provide mechanical strength, thermal stability, corrosion resistance, and ease of installation for battery modules used in residential, commercial, and utility-scale solar-plus-storage systems. Market growth is driven by the rapid expansion of solar energy installations, increasing adoption of battery energy storage systems (BESS), and the global transition toward renewable and distributed energy infrastructure.

This report studies the global Solar Battery Frame production, demand, key

manufacturers, and key regions.

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

Highlights and key features of the study

Global Solar Battery Frame total production and demand, 2021-2032, (Kilotons)

Global Solar Battery Frame total production value, 2021-2032, (USD Million)

Global Solar Battery Frame production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Solar Battery Frame consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Solar Battery Frame domestic production, consumption, key domestic manufacturers and share

Global Solar Battery Frame production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Solar Battery Frame production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Solar Battery Frame production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Solar Battery Frame 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 Hydro, Constellium, Alom Group, Nippon Light Metal, Hulamin, Indal Aluminium Industry Tbk (Indal), Do Thanh Aluminum, Yonz Technology, Anhui Xinbo Aluminum, CITIC Bohai Aluminum Industries, 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 Battery Frame market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Battery Frame Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar Battery Frame Market, Segmentation by Type:

Single-arm Frame

Double-arm Frame

Global Solar Battery Frame Market, Segmentation by Structure:

Standard Framed Modules

Half-frame

Thin-frame Modules

Global Solar Battery Frame Market, Segmentation by Alloy Materials:

6063

6005

6061

6082

Global Solar Battery Frame Market, Segmentation by Application:

Residential Roof

Commercial and Industrial Roof

Solar Power Plant

Companies Profiled:

Hydro

Constellium

Alom Group

Nippon Light Metal

Hulamin

Indal Aluminium Industry Tbk (Indal)

Do Thanh Aluminum

Yonz Technology

Anhui Xinbo Aluminum

CITIC Bohai Aluminum Industries

Yingkou Changtai Aluminum Material

JA Solar Technology

ZYF Lopsking Material Technology

Changzhou Kaihong Aluminum Industry

Jiangyin Yuansheng Aluminum

Akcome Technology

Chuzhou Ruida New Energy Materials

Key Questions Answered:

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

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