

Global Solar Battery Frame Market Growth 2026-2032

<https://marketpublishers.com/r/G8F20FA764FCEN.html>

Date: May 2026

Pages: 130

Price: US\$ 3,660.00 (Single User License)

ID: G8F20FA764FCEN

Abstracts

The global Solar Battery Frame market size is predicted to grow from US\$ 6995 million in 2025 to US\$ 12298 million in 2032; it is expected to grow at a CAGR of 8.4% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the “Solar Battery Frame Industry Forecast” looks at past sales and reviews total world Solar Battery Frame sales in

2025, providing a comprehensive analysis by region and market sector of projected Solar Battery Frame sales for 2026 through 2032. With Solar Battery Frame sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Battery Frame industry.

This Insight Report provides a comprehensive analysis of the global Solar Battery Frame landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Battery Frame portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Battery Frame market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Battery Frame and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Battery Frame.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Battery Frame market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-arm Frame

Double-arm Frame

Segmentation by Structure:

Standard Framed Modules

Half-frame

Thin-frame Modules

Segmentation by Alloy Materials:

6063

6005

6061

6082

Segmentation by Application:

Residential Roof

Commercial and Industrial Roof

Solar Power Plant

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Solar Battery Frame market?

What factors are driving Solar Battery Frame market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Battery Frame market opportunities vary by end market size?

How does Solar Battery Frame break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Solar Battery Frame Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Solar Battery Frame by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Solar Battery Frame by Country/Region, 2021, 2025 & 2032

2.2 Solar Battery Frame Segment by Type

- 2.2.1 Single-arm Frame
- 2.2.2 Double-arm Frame
- 2.2.3 Solar Battery Frame Sales by Type
 - 2.2.3.1 Global Solar Battery Frame Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Solar Battery Frame Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Solar Battery Frame Sale Price by Type (2021-2026)

2.3 Solar Battery Frame Segment by Structure

- 2.3.1 Standard Framed Modules
- 2.3.2 Half-frame
- 2.3.3 Thin-frame Modules
- 2.3.4 Solar Battery Frame Sales by Structure
 - 2.3.4.1 Global Solar Battery Frame Sales Market Share by Structure (2021-2026)
 - 2.3.4.2 Global Solar Battery Frame Revenue and Market Share by Structure (2021-2026)
 - 2.3.4.3 Global Solar Battery Frame Sale Price by Structure (2021-2026)

2.4 Solar Battery Frame Segment by Alloy Materials

- 2.4.1 6063

2.4.2 6005

2.4.3 6061

2.4.4 6082

2.4.5 Solar Battery Frame Sales by Alloy Materials

2.4.5.1 Global Solar Battery Frame Sales Market Share by Alloy Materials
(2021-2026)

2.4.5.2 Global Solar Battery Frame Revenue and Market Share by Alloy Materials
(2021-2026)

2.4.5.3 Global Solar Battery Frame Sale Price by Alloy Materials (2021-2026)

2.5 Solar Battery Frame Segment by Application

2.5.1 Residential Roof

2.5.2 Commercial and Industrial Roof

2.5.3 Solar Power Plant

2.5.4 Solar Battery Frame Sales by Application

2.5.4.1 Global Solar Battery Frame Sale Market Share by Application (2021-2026)

2.5.4.2 Global Solar Battery Frame Revenue and Market Share by Application
(2021-2026)

2.5.4.3 Global Solar Battery Frame Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Solar Battery Frame Breakdown Data by Company

3.1.1 Global Solar Battery Frame Annual Sales by Company (2021-2026)

3.1.2 Global Solar Battery Frame Sales Market Share by Company (2021-2026)

3.2 Global Solar Battery Frame Annual Revenue by Company (2021-2026)

3.2.1 Global Solar Battery Frame Revenue by Company (2021-2026)

3.2.2 Global Solar Battery Frame Revenue Market Share by Company (2021-2026)

3.3 Global Solar Battery Frame Sale Price by Company

3.4 Key Manufacturers Solar Battery Frame Producing Area Distribution, Sales Area,
Product Type

3.4.1 Key Manufacturers Solar Battery Frame Product Location Distribution

3.4.2 Players Solar Battery Frame Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SOLAR BATTERY FRAME BY GEOGRAPHIC

REGION

- 4.1 World Historic Solar Battery Frame Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Solar Battery Frame Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Solar Battery Frame Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Solar Battery Frame Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Solar Battery Frame Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Solar Battery Frame Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Solar Battery Frame Sales Growth
- 4.4 APAC Solar Battery Frame Sales Growth
- 4.5 Europe Solar Battery Frame Sales Growth
- 4.6 Middle East & Africa Solar Battery Frame Sales Growth

5 AMERICAS

- 5.1 Americas Solar Battery Frame Sales by Country
 - 5.1.1 Americas Solar Battery Frame Sales by Country (2021-2026)
 - 5.1.2 Americas Solar Battery Frame Revenue by Country (2021-2026)
- 5.2 Americas Solar Battery Frame Sales by Type (2021-2026)
- 5.3 Americas Solar Battery Frame Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Solar Battery Frame Sales by Region
 - 6.1.1 APAC Solar Battery Frame Sales by Region (2021-2026)
 - 6.1.2 APAC Solar Battery Frame Revenue by Region (2021-2026)
- 6.2 APAC Solar Battery Frame Sales by Type (2021-2026)
- 6.3 APAC Solar Battery Frame Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

7.1 Europe Solar Battery Frame by Country

7.1.1 Europe Solar Battery Frame Sales by Country (2021-2026)

7.1.2 Europe Solar Battery Frame Revenue by Country (2021-2026)

7.2 Europe Solar Battery Frame Sales by Type (2021-2026)

7.3 Europe Solar Battery Frame Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Solar Battery Frame by Country

8.1.1 Middle East & Africa Solar Battery Frame Sales by Country (2021-2026)

8.1.2 Middle East & Africa Solar Battery Frame Revenue by Country (2021-2026)

8.2 Middle East & Africa Solar Battery Frame Sales by Type (2021-2026)

8.3 Middle East & Africa Solar Battery Frame Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Solar Battery Frame

10.3 Manufacturing Process Analysis of Solar Battery Frame

10.4 Industry Chain Structure of Solar Battery Frame

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Solar Battery Frame Distributors

11.3 Solar Battery Frame Customer

12 WORLD FORECAST REVIEW FOR SOLAR BATTERY FRAME BY GEOGRAPHIC REGION

12.1 Global Solar Battery Frame Market Size Forecast by Region

12.1.1 Global Solar Battery Frame Forecast by Region (2027-2032)

12.1.2 Global Solar Battery Frame Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Solar Battery Frame Forecast by Type (2027-2032)

12.7 Global Solar Battery Frame Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Hydro

13.1.1 Hydro Company Information

13.1.2 Hydro Solar Battery Frame Product Portfolios and Specifications

13.1.3 Hydro Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Hydro Main Business Overview

13.1.5 Hydro Latest Developments

13.2 Constellium

13.2.1 Constellium Company Information

13.2.2 Constellium Solar Battery Frame Product Portfolios and Specifications

13.2.3 Constellium Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Constellium Main Business Overview

13.2.5 Constellium Latest Developments

13.3 Alom Group

- 13.3.1 Alom Group Company Information
- 13.3.2 Alom Group Solar Battery Frame Product Portfolios and Specifications
- 13.3.3 Alom Group Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Alom Group Main Business Overview
- 13.3.5 Alom Group Latest Developments
- 13.4 Nippon Light Metal
 - 13.4.1 Nippon Light Metal Company Information
 - 13.4.2 Nippon Light Metal Solar Battery Frame Product Portfolios and Specifications
 - 13.4.3 Nippon Light Metal Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Nippon Light Metal Main Business Overview
 - 13.4.5 Nippon Light Metal Latest Developments
- 13.5 Hulamin
 - 13.5.1 Hulamin Company Information
 - 13.5.2 Hulamin Solar Battery Frame Product Portfolios and Specifications
 - 13.5.3 Hulamin Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Hulamin Main Business Overview
 - 13.5.5 Hulamin Latest Developments
- 13.6 Indal Aluminium Industry Tbk (Indal)
 - 13.6.1 Indal Aluminium Industry Tbk (Indal) Company Information
 - 13.6.2 Indal Aluminium Industry Tbk (Indal) Solar Battery Frame Product Portfolios and Specifications
 - 13.6.3 Indal Aluminium Industry Tbk (Indal) Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Indal Aluminium Industry Tbk (Indal) Main Business Overview
 - 13.6.5 Indal Aluminium Industry Tbk (Indal) Latest Developments
- 13.7 Do Thanh Aluminum
 - 13.7.1 Do Thanh Aluminum Company Information
 - 13.7.2 Do Thanh Aluminum Solar Battery Frame Product Portfolios and Specifications
 - 13.7.3 Do Thanh Aluminum Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Do Thanh Aluminum Main Business Overview
 - 13.7.5 Do Thanh Aluminum Latest Developments
- 13.8 Yonz Technology
 - 13.8.1 Yonz Technology Company Information
 - 13.8.2 Yonz Technology Solar Battery Frame Product Portfolios and Specifications
 - 13.8.3 Yonz Technology Solar Battery Frame Sales, Revenue, Price and Gross Margin

(2021-2026)

13.8.4 Yonz Technology Main Business Overview

13.8.5 Yonz Technology Latest Developments

13.9 Anhui Xinbo Aluminum

13.9.1 Anhui Xinbo Aluminum Company Information

13.9.2 Anhui Xinbo Aluminum Solar Battery Frame Product Portfolios and Specifications

13.9.3 Anhui Xinbo Aluminum Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Anhui Xinbo Aluminum Main Business Overview

13.9.5 Anhui Xinbo Aluminum Latest Developments

13.10 CITIC Bohai Aluminum Industries

13.10.1 CITIC Bohai Aluminum Industries Company Information

13.10.2 CITIC Bohai Aluminum Industries Solar Battery Frame Product Portfolios and Specifications

13.10.3 CITIC Bohai Aluminum Industries Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 CITIC Bohai Aluminum Industries Main Business Overview

13.10.5 CITIC Bohai Aluminum Industries Latest Developments

13.11 Yingkou Changtai Aluminum Material

13.11.1 Yingkou Changtai Aluminum Material Company Information

13.11.2 Yingkou Changtai Aluminum Material Solar Battery Frame Product Portfolios and Specifications

13.11.3 Yingkou Changtai Aluminum Material Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Yingkou Changtai Aluminum Material Main Business Overview

13.11.5 Yingkou Changtai Aluminum Material Latest Developments

13.12 JA Solar Technology

13.12.1 JA Solar Technology Company Information

13.12.2 JA Solar Technology Solar Battery Frame Product Portfolios and Specifications

13.12.3 JA Solar Technology Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 JA Solar Technology Main Business Overview

13.12.5 JA Solar Technology Latest Developments

13.13 ZYF Lopsking Material Technology

13.13.1 ZYF Lopsking Material Technology Company Information

13.13.2 ZYF Lopsking Material Technology Solar Battery Frame Product Portfolios and Specifications

13.13.3 ZYF Lopsking Material Technology Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 ZYF Lopsking Material Technology Main Business Overview

13.13.5 ZYF Lopsking Material Technology Latest Developments

13.14 Changzhou Kaihong Aluminum Industry

13.14.1 Changzhou Kaihong Aluminum Industry Company Information

13.14.2 Changzhou Kaihong Aluminum Industry Solar Battery Frame Product Portfolios and Specifications

13.14.3 Changzhou Kaihong Aluminum Industry Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Changzhou Kaihong Aluminum Industry Main Business Overview

13.14.5 Changzhou Kaihong Aluminum Industry Latest Developments

13.15 Jiangyin Yuansheng Aluminum

13.15.1 Jiangyin Yuansheng Aluminum Company Information

13.15.2 Jiangyin Yuansheng Aluminum Solar Battery Frame Product Portfolios and Specifications

13.15.3 Jiangyin Yuansheng Aluminum Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Jiangyin Yuansheng Aluminum Main Business Overview

13.15.5 Jiangyin Yuansheng Aluminum Latest Developments

13.16 Akcome Technology

13.16.1 Akcome Technology Company Information

13.16.2 Akcome Technology Solar Battery Frame Product Portfolios and Specifications

13.16.3 Akcome Technology Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Akcome Technology Main Business Overview

13.16.5 Akcome Technology Latest Developments

13.17 Chuzhou Ruida New Energy Materials

13.17.1 Chuzhou Ruida New Energy Materials Company Information

13.17.2 Chuzhou Ruida New Energy Materials Solar Battery Frame Product Portfolios and Specifications

13.17.3 Chuzhou Ruida New Energy Materials Solar Battery Frame Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Chuzhou Ruida New Energy Materials Main Business Overview

13.17.5 Chuzhou Ruida New Energy Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Solar Battery Frame Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Solar Battery Frame Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Single-arm Frame
- Table 4. Major Players of Double-arm Frame
- Table 5. Global Solar Battery Frame Sales by Type (2021-2026) & (Kilotons)
- Table 6. Global Solar Battery Frame Sales Market Share by Type (2021-2026)
- Table 7. Global Solar Battery Frame Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Solar Battery Frame Revenue Market Share by Type (2021-2026)
- Table 9. Global Solar Battery Frame Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 10. Major Players of Standard Framed Modules
- Table 11. Major Players of Half-frame
- Table 12. Major Players of Thin-frame Modules
- Table 13. Global Solar Battery Frame Sales by Structure (2021-2026) & (Kilotons)
- Table 14. Global Solar Battery Frame Sales Market Share by Structure (2021-2026)
- Table 15. Global Solar Battery Frame Revenue by Structure (2021-2026) & (\$ million)
- Table 16. Global Solar Battery Frame Revenue Market Share by Structure (2021-2026)
- Table 17. Global Solar Battery Frame Sale Price by Structure (2021-2026) & (US\$/Ton)
- Table 18. Major Players of 6063
- Table 19. Major Players of 6005
- Table 20. Major Players of 6061
- Table 21. Major Players of 6082
- Table 22. Global Solar Battery Frame Sales by Alloy Materials (2021-2026) & (Kilotons)
- Table 23. Global Solar Battery Frame Sales Market Share by Alloy Materials (2021-2026)
- Table 24. Global Solar Battery Frame Revenue by Alloy Materials (2021-2026) & (\$ million)
- Table 25. Global Solar Battery Frame Revenue Market Share by Alloy Materials (2021-2026)
- Table 26. Global Solar Battery Frame Sale Price by Alloy Materials (2021-2026) & (US\$/Ton)
- Table 27. Global Solar Battery Frame Sale by Application (2021-2026) & (Kilotons)
- Table 28. Global Solar Battery Frame Sale Market Share by Application (2021-2026)
- Table 29. Global Solar Battery Frame Revenue by Application (2021-2026) & (\$ million)

- Table 30. Global Solar Battery Frame Revenue Market Share by Application (2021-2026)
- Table 31. Global Solar Battery Frame Sale Price by Application (2021-2026) & (US\$/Ton)
- Table 32. Global Solar Battery Frame Sales by Company (2021-2026) & (Kilotons)
- Table 33. Global Solar Battery Frame Sales Market Share by Company (2021-2026)
- Table 34. Global Solar Battery Frame Revenue by Company (2021-2026) & (\$ millions)
- Table 35. Global Solar Battery Frame Revenue Market Share by Company (2021-2026)
- Table 36. Global Solar Battery Frame Sale Price by Company (2021-2026) & (US\$/Ton)
- Table 37. Key Manufacturers Solar Battery Frame Producing Area Distribution and Sales Area
- Table 38. Players Solar Battery Frame Products Offered
- Table 39. Solar Battery Frame Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 40. New Products and Potential Entrants
- Table 41. Market M&A Activity & Strategy
- Table 42. Global Solar Battery Frame Sales by Geographic Region (2021-2026) & (Kilotons)
- Table 43. Global Solar Battery Frame Sales Market Share Geographic Region (2021-2026)
- Table 44. Global Solar Battery Frame Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 45. Global Solar Battery Frame Revenue Market Share by Geographic Region (2021-2026)
- Table 46. Global Solar Battery Frame Sales by Country/Region (2021-2026) & (Kilotons)
- Table 47. Global Solar Battery Frame Sales Market Share by Country/Region (2021-2026)
- Table 48. Global Solar Battery Frame Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 49. Global Solar Battery Frame Revenue Market Share by Country/Region (2021-2026)
- Table 50. Americas Solar Battery Frame Sales by Country (2021-2026) & (Kilotons)
- Table 51. Americas Solar Battery Frame Sales Market Share by Country (2021-2026)
- Table 52. Americas Solar Battery Frame Revenue by Country (2021-2026) & (\$ millions)
- Table 53. Americas Solar Battery Frame Sales by Type (2021-2026) & (Kilotons)
- Table 54. Americas Solar Battery Frame Sales by Application (2021-2026) & (Kilotons)
- Table 55. APAC Solar Battery Frame Sales by Region (2021-2026) & (Kilotons)

- Table 56. APAC Solar Battery Frame Sales Market Share by Region (2021-2026)
- Table 57. APAC Solar Battery Frame Revenue by Region (2021-2026) & (\$ millions)
- Table 58. APAC Solar Battery Frame Sales by Type (2021-2026) & (Kilotons)
- Table 59. APAC Solar Battery Frame Sales by Application (2021-2026) & (Kilotons)
- Table 60. Europe Solar Battery Frame Sales by Country (2021-2026) & (Kilotons)
- Table 61. Europe Solar Battery Frame Revenue by Country (2021-2026) & (\$ millions)
- Table 62. Europe Solar Battery Frame Sales by Type (2021-2026) & (Kilotons)
- Table 63. Europe Solar Battery Frame Sales by Application (2021-2026) & (Kilotons)
- Table 64. Middle East & Africa Solar Battery Frame Sales by Country (2021-2026) & (Kilotons)
- Table 65. Middle East & Africa Solar Battery Frame Revenue Market Share by Country (2021-2026)
- Table 66. Middle East & Africa Solar Battery Frame Sales by Type (2021-2026) & (Kilotons)
- Table 67. Middle East & Africa Solar Battery Frame Sales by Application (2021-2026) & (Kilotons)
- Table 68. Key Market Drivers & Growth Opportunities of Solar Battery Frame
- Table 69. Key Market Challenges & Risks of Solar Battery Frame
- Table 70. Key Industry Trends of Solar Battery Frame
- Table 71. Solar Battery Frame Raw Material
- Table 72. Key Suppliers of Raw Materials
- Table 73. Solar Battery Frame Distributors List
- Table 74. Solar Battery Frame Customer List
- Table 75. Global Solar Battery Frame Sales Forecast by Region (2027-2032) & (Kilotons)
- Table 76. Global Solar Battery Frame Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 77. Americas Solar Battery Frame Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 78. Americas Solar Battery Frame Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 79. APAC Solar Battery Frame Sales Forecast by Region (2027-2032) & (Kilotons)
- Table 80. APAC Solar Battery Frame Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 81. Europe Solar Battery Frame Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 82. Europe Solar Battery Frame Revenue Forecast by Country (2027-2032) & (\$ millions)

- Table 83. Middle East & Africa Solar Battery Frame Sales Forecast by Country (2027-2032) & (Kilotons)
- Table 84. Middle East & Africa Solar Battery Frame Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 85. Global Solar Battery Frame Sales Forecast by Type (2027-2032) & (Kilotons)
- Table 86. Global Solar Battery Frame Revenue Forecast by Type (2027-2032) & (\$ millions)
- Table 87. Global Solar Battery Frame Sales Forecast by Application (2027-2032) & (Kilotons)
- Table 88. Global Solar Battery Frame Revenue Forecast by Application (2027-2032) & (\$ millions)
- Table 89. Hydro Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors
- Table 90. Hydro Solar Battery Frame Product Portfolios and Specifications
- Table 91. Hydro Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 92. Hydro Main Business
- Table 93. Hydro Latest Developments
- Table 94. Constellium Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors
- Table 95. Constellium Solar Battery Frame Product Portfolios and Specifications
- Table 96. Constellium Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 97. Constellium Main Business
- Table 98. Constellium Latest Developments
- Table 99. Alom Group Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors
- Table 100. Alom Group Solar Battery Frame Product Portfolios and Specifications
- Table 101. Alom Group Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 102. Alom Group Main Business
- Table 103. Alom Group Latest Developments
- Table 104. Nippon Light Metal Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors
- Table 105. Nippon Light Metal Solar Battery Frame Product Portfolios and Specifications
- Table 106. Nippon Light Metal Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 107. Nippon Light Metal Main Business

Table 108. Nippon Light Metal Latest Developments

Table 109. Hulamin Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 110. Hulamin Solar Battery Frame Product Portfolios and Specifications

Table 111. Hulamin Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 112. Hulamin Main Business

Table 113. Hulamin Latest Developments

Table 114. Indal Aluminium Industry Tbk (Indal) Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 115. Indal Aluminium Industry Tbk (Indal) Solar Battery Frame Product Portfolios and Specifications

Table 116. Indal Aluminium Industry Tbk (Indal) Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 117. Indal Aluminium Industry Tbk (Indal) Main Business

Table 118. Indal Aluminium Industry Tbk (Indal) Latest Developments

Table 119. Do Thanh Aluminum Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 120. Do Thanh Aluminum Solar Battery Frame Product Portfolios and Specifications

Table 121. Do Thanh Aluminum Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 122. Do Thanh Aluminum Main Business

Table 123. Do Thanh Aluminum Latest Developments

Table 124. Yonz Technology Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 125. Yonz Technology Solar Battery Frame Product Portfolios and Specifications

Table 126. Yonz Technology Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 127. Yonz Technology Main Business

Table 128. Yonz Technology Latest Developments

Table 129. Anhui Xinbo Aluminum Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 130. Anhui Xinbo Aluminum Solar Battery Frame Product Portfolios and Specifications

Table 131. Anhui Xinbo Aluminum Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 132. Anhui Xinbo Aluminum Main Business

Table 133. Anhui Xinbo Aluminum Latest Developments

Table 134. CITIC Bohai Aluminum Industries Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 135. CITIC Bohai Aluminum Industries Solar Battery Frame Product Portfolios and Specifications

Table 136. CITIC Bohai Aluminum Industries Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 137. CITIC Bohai Aluminum Industries Main Business

Table 138. CITIC Bohai Aluminum Industries Latest Developments

Table 139. Yingkou Changtai Aluminum Material Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 140. Yingkou Changtai Aluminum Material Solar Battery Frame Product Portfolios and Specifications

Table 141. Yingkou Changtai Aluminum Material Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 142. Yingkou Changtai Aluminum Material Main Business

Table 143. Yingkou Changtai Aluminum Material Latest Developments

Table 144. JA Solar Technology Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 145. JA Solar Technology Solar Battery Frame Product Portfolios and Specifications

Table 146. JA Solar Technology Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 147. JA Solar Technology Main Business

Table 148. JA Solar Technology Latest Developments

Table 149. ZYF Lopsking Material Technology Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 150. ZYF Lopsking Material Technology Solar Battery Frame Product Portfolios and Specifications

Table 151. ZYF Lopsking Material Technology Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 152. ZYF Lopsking Material Technology Main Business

Table 153. ZYF Lopsking Material Technology Latest Developments

Table 154. Changzhou Kaihong Aluminum Industry Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 155. Changzhou Kaihong Aluminum Industry Solar Battery Frame Product Portfolios and Specifications

Table 156. Changzhou Kaihong Aluminum Industry Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 157. Changzhou Kaihong Aluminum Industry Main Business

Table 158. Changzhou Kaihong Aluminum Industry Latest Developments

Table 159. Jiangyin Yuansheng Aluminum Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 160. Jiangyin Yuansheng Aluminum Solar Battery Frame Product Portfolios and Specifications

Table 161. Jiangyin Yuansheng Aluminum Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 162. Jiangyin Yuansheng Aluminum Main Business

Table 163. Jiangyin Yuansheng Aluminum Latest Developments

Table 164. Akcome Technology Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 165. Akcome Technology Solar Battery Frame Product Portfolios and Specifications

Table 166. Akcome Technology Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 167. Akcome Technology Main Business

Table 168. Akcome Technology Latest Developments

Table 169. Chuzhou Ruida New Energy Materials Basic Information, Solar Battery Frame Manufacturing Base, Sales Area and Its Competitors

Table 170. Chuzhou Ruida New Energy Materials Solar Battery Frame Product Portfolios and Specifications

Table 171. Chuzhou Ruida New Energy Materials Solar Battery Frame Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 172. Chuzhou Ruida New Energy Materials Main Business

Table 173. Chuzhou Ruida New Energy Materials Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Solar Battery Frame
- Figure 2. Solar Battery Frame Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Solar Battery Frame Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Solar Battery Frame Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Solar Battery Frame Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Solar Battery Frame Sales Market Share by Country/Region (2025)
- Figure 10. Solar Battery Frame Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Single-arm Frame
- Figure 12. Product Picture of Double-arm Frame
- Figure 13. Global Solar Battery Frame Sales Market Share by Type in 2026
- Figure 14. Global Solar Battery Frame Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Standard Framed Modules
- Figure 16. Product Picture of Half-frame
- Figure 17. Product Picture of Thin-frame Modules
- Figure 18. Global Solar Battery Frame Sales Market Share by Structure in 2026
- Figure 19. Global Solar Battery Frame Revenue Market Share by Structure (2021-2026)
- Figure 20. Product Picture of 6063
- Figure 21. Product Picture of 6005
- Figure 22. Product Picture of 6061
- Figure 23. Product Picture of 6082
- Figure 24. Global Solar Battery Frame Sales Market Share by Alloy Materials in 2026
- Figure 25. Global Solar Battery Frame Revenue Market Share by Alloy Materials (2021-2026)
- Figure 26. Solar Battery Frame Consumed in Residential Roof
- Figure 27. Global Solar Battery Frame Market: Residential Roof (2021-2026) & (Kilotons)
- Figure 28. Solar Battery Frame Consumed in Commercial and Industrial Roof
- Figure 29. Global Solar Battery Frame Market: Commercial and Industrial Roof (2021-2026) & (Kilotons)
- Figure 30. Solar Battery Frame Consumed in Solar Power Plant

- Figure 31. Global Solar Battery Frame Market: Solar Power Plant (2021-2026) & (Kilotons)
- Figure 32. Global Solar Battery Frame Sale Market Share by Application (2025)
- Figure 33. Global Solar Battery Frame Revenue Market Share by Application in 2025
- Figure 34. Solar Battery Frame Sales by Company in 2025 (Kilotons)
- Figure 35. Global Solar Battery Frame Sales Market Share by Company in 2025
- Figure 36. Solar Battery Frame Revenue by Company in 2025 (\$ millions)
- Figure 37. Global Solar Battery Frame Revenue Market Share by Company in 2025
- Figure 38. Global Solar Battery Frame Sales Market Share by Geographic Region (2021-2026)
- Figure 39. Global Solar Battery Frame Revenue Market Share by Geographic Region in 2025
- Figure 40. Americas Solar Battery Frame Sales 2021-2026 (Kilotons)
- Figure 41. Americas Solar Battery Frame Revenue 2021-2026 (\$ millions)
- Figure 42. APAC Solar Battery Frame Sales 2021-2026 (Kilotons)
- Figure 43. APAC Solar Battery Frame Revenue 2021-2026 (\$ millions)
- Figure 44. Europe Solar Battery Frame Sales 2021-2026 (Kilotons)
- Figure 45. Europe Solar Battery Frame Revenue 2021-2026 (\$ millions)
- Figure 46. Middle East & Africa Solar Battery Frame Sales 2021-2026 (Kilotons)
- Figure 47. Middle East & Africa Solar Battery Frame Revenue 2021-2026 (\$ millions)
- Figure 48. Americas Solar Battery Frame Sales Market Share by Country in 2025
- Figure 49. Americas Solar Battery Frame Revenue Market Share by Country (2021-2026)
- Figure 50. Americas Solar Battery Frame Sales Market Share by Type (2021-2026)
- Figure 51. Americas Solar Battery Frame Sales Market Share by Application (2021-2026)
- Figure 52. United States Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 53. Canada Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Mexico Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Brazil Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 56. APAC Solar Battery Frame Sales Market Share by Region in 2025
- Figure 57. APAC Solar Battery Frame Revenue Market Share by Region (2021-2026)
- Figure 58. APAC Solar Battery Frame Sales Market Share by Type (2021-2026)
- Figure 59. APAC Solar Battery Frame Sales Market Share by Application (2021-2026)
- Figure 60. China Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Japan Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 62. South Korea Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 63. Southeast Asia Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 64. India Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)

- Figure 65. Australia Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 66. China Taiwan Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Europe Solar Battery Frame Sales Market Share by Country in 2025
- Figure 68. Europe Solar Battery Frame Revenue Market Share by Country (2021-2026)
- Figure 69. Europe Solar Battery Frame Sales Market Share by Type (2021-2026)
- Figure 70. Europe Solar Battery Frame Sales Market Share by Application (2021-2026)
- Figure 71. Germany Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 72. France Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 73. UK Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 74. Italy Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Russia Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 76. Middle East & Africa Solar Battery Frame Sales Market Share by Country (2021-2026)
- Figure 77. Middle East & Africa Solar Battery Frame Sales Market Share by Type (2021-2026)
- Figure 78. Middle East & Africa Solar Battery Frame Sales Market Share by Application (2021-2026)
- Figure 79. Egypt Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 80. South Africa Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Israel Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Turkey Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 83. GCC Countries Solar Battery Frame Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Manufacturing Cost Structure Analysis of Solar Battery Frame in 2026
- Figure 85. Manufacturing Process Analysis of Solar Battery Frame
- Figure 86. Industry Chain Structure of Solar Battery Frame
- Figure 87. Channels of Distribution
- Figure 88. Global Solar Battery Frame Sales Market Forecast by Region (2027-2032)
- Figure 89. Global Solar Battery Frame Revenue Market Share Forecast by Region (2027-2032)
- Figure 90. Global Solar Battery Frame Sales Market Share Forecast by Type (2027-2032)
- Figure 91. Global Solar Battery Frame Revenue Market Share Forecast by Type (2027-2032)
- Figure 92. Global Solar Battery Frame Sales Market Share Forecast by Application (2027-2032)
- Figure 93. Global Solar Battery Frame Revenue Market Share Forecast by Application (2027-2032)

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