

Global Portable Solar Folding Panel Market Growth 2026-2032

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Abstracts

The global Portable Solar Folding Panel market size is predicted to grow from US\$ 721 million in 2025 to US\$ 1055 million in 2032; it is expected to grow at a CAGR of 5.7% from 2026 to 2032.

A Portable Solar Folding Panel is a foldable, carryable photovoltaic power source designed for off-grid charging and field power replenishment when grid electricity is unavailable, unreliable, or inconvenient. Its purpose is to solve the 'energy access at the point of use' problem: outdoor recreation, RV travel, remote inspection, disaster relief, and temporary worksites all need quiet, fuel-free, repeatable power to top up devices and portable battery stations without the logistics, noise, emissions, and maintenance burden of fuel generators, and without the recurring cost and waste of disposable batteries. Historically, portable solar products began as small, low-wattage chargers aimed at trickle-charging phones or AA packs; as crystalline-silicon cell efficiency improved and lamination/encapsulation materials became more robust, manufacturers could scale power density while keeping weight manageable. In parallel, the rise of portable power stations and DC appliances created a pull for higher-power, ruggedized, quick-deploy panels with standardized outputs and better electrical matching (e.g., to MPPT controllers). The modern folding panel is therefore a convergence of PV manufacturing advances (cells, interconnects, encapsulants, backsheet/frontsheet) and user-side demand for reliable mobile energy evolving from niche gadgetry into a practical component of mobile and emergency energy systems. In 2025, the global production capacity of portable solar folding panels reached 5 million units. Global sales volume amounted to 4.037 million units, with an average selling price of USD 182.5 per unit. The gross profit margin of enterprises ranged between 25% and 35%.

The current market is being shaped by expanding use cases, rapid product segmentation, and strong channel/review influence. As outdoor recreation becomes more routine, preparedness mindsets spread, and remote fieldwork remains common, more users view portable solar as a practical layer in their personal energy toolkit. At the same time, offerings are diverging: some prioritize real-world output consistency and low-light behavior, others optimize for lighter weight and impact resistance, while many are designed to pair smoothly with portable power stations and DC appliances. User literacy is also improving?buyers increasingly pay attention to electrical matching, cable losses, connector quality, and durability of encapsulation?so the decision criteria are shifting away from headline specs toward ?usable energy, convenience, and longevity.? However, the market remains noisy: inconsistent labeling, uneven QC, and gaps between expectations and field performance keep trust and after-sales support as major differentiators.

Looking ahead, the trajectory points toward tighter system integration, clearer standardization, more robust lightweight designs, and greater ?smart? usability. Integration means products will feel less like standalone panels and more like components in a cohesive mobile energy system, with better coordination across connectors, protection logic, and charging behavior. Standardization should reduce friction by making compatibility more predictable and performance claims more comparable, while also raising expectations around safety and reliability. Materials and mechanical design will keep evolving to withstand UV, abrasion, moisture, dust, and repeated folding without rapid degradation, and thermal/stress management will become more central to maintaining stable output. On the usability side, smarter feedback and guidance?status visibility, fault hints, and easier ?plug-and-work? setups?will matter, as will more transparent warranty and service policies that turn trust into a competitive moat.

Drivers and barriers will coexist, sustaining fast iteration while intensifying competition. Demand is pushed by preference for quiet, low-maintenance renewable charging, the flywheel effect of portable power stations and DC devices, improving supply chain maturity, and the influence of online content ecosystems that popularize real-world scenarios and buying checklists. Constraints come from inherently variable operating conditions?weather, angle, temperature, and shading can create inconsistent experiences that amplify disappointment if expectations are poorly set. Compatibility and safety complexities also remain a hurdle: differences in input requirements across power stations, variability in cable/connector quality, risks tied to parallel use, and potential hot-spot or failure modes from subpar junction components. Another persistent barrier is information asymmetry?without clear, trusted performance and durability

disclosures, low-quality products can distort price expectations and erode confidence, raising the education cost for reputable brands. Over time, the winners are likely to be those that close the loop on real-world usability, predictable compatibility, robust safety margins, durable build quality, and dependable service.

LP Information, Inc. (LPI) ' newest research report, the "Portable Solar Folding Panel Industry Forecast" looks at past sales and reviews total world Portable Solar Folding Panel sales in 2025, providing a comprehensive analysis by region and market sector of projected Portable Solar Folding Panel sales for 2026 through 2032. With Portable Solar Folding Panel sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Portable Solar Folding Panel industry.

This Insight Report provides a comprehensive analysis of the global Portable Solar Folding Panel 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 Portable Solar Folding Panel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Portable Solar Folding Panel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Portable Solar Folding Panel 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 Portable Solar Folding Panel.

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

Segmentation by Type:

Low Power (Under 100W)

Mid Power (100W-200W)

High Power (200W-400W)

Ultra High Power (Above 400W)

Segmentation by Cell Technology:

Monocrystalline PERC

Monocrystalline TOPCon

Flexible Thin-Film

Back-Contact (IBC)

Segmentation by Structural Design:

Soft Fabric Folding

Semi-Rigid Composite

Rigid Frame Folding

Segmentation by Application:

Military

Commercial

Consumer and Outdoor

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.

Renogy

HQST

ACOPower

Hovall Technology

Link Solar

Go Power

Hinergy

Global Solar

Li Power Tech

Goal Zero

PowerFilm Solar

Foryou Optoelectronics Technology

Ecoflow

Newway Energy

Zhejiang Chisolar

Key Questions Addressed in this Report

What is the 10-year outlook for the global Portable Solar Folding Panel market?

What factors are driving Portable Solar Folding Panel market growth, globally and by region?

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

How do Portable Solar Folding Panel market opportunities vary by end market size?

How does Portable Solar Folding Panel 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 Portable Solar Folding Panel Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Portable Solar Folding Panel by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Portable Solar Folding Panel by Country/Region, 2021, 2025 & 2032
- 2.2 Portable Solar Folding Panel Segment by Type
 - 2.2.1 Low Power (Under 100W)
 - 2.2.2 Mid Power (100W?200W)
 - 2.2.3 High Power (200W?400W)
 - 2.2.4 Ultra High Power (Above 400W)
 - 2.2.5 Portable Solar Folding Panel Sales by Type
 - 2.2.5.1 Global Portable Solar Folding Panel Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Portable Solar Folding Panel Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Portable Solar Folding Panel Sale Price by Type (2021-2026)
- 2.3 Portable Solar Folding Panel Segment by Cell Technology
 - 2.3.1 Monocrystalline PERC
 - 2.3.2 Monocrystalline TOPCon
 - 2.3.3 Flexible Thin-Film
 - 2.3.4 Back-Contact (IBC)
 - 2.3.5 Portable Solar Folding Panel Sales by Cell Technology
 - 2.3.5.1 Global Portable Solar Folding Panel Sales Market Share by Cell Technology (2021-2026)

2.3.5.2 Global Portable Solar Folding Panel Revenue and Market Share by Cell Technology (2021-2026)

2.3.5.3 Global Portable Solar Folding Panel Sale Price by Cell Technology (2021-2026)

2.4 Portable Solar Folding Panel Segment by Structural Design

2.4.1 Soft Fabric Folding

2.4.2 Semi-Rigid Composite

2.4.3 Rigid Frame Folding

2.4.4 Portable Solar Folding Panel Sales by Structural Design

2.4.4.1 Global Portable Solar Folding Panel Sales Market Share by Structural Design (2021-2026)

2.4.4.2 Global Portable Solar Folding Panel Revenue and Market Share by Structural Design (2021-2026)

2.4.4.3 Global Portable Solar Folding Panel Sale Price by Structural Design (2021-2026)

2.5 Portable Solar Folding Panel Segment by Application

2.5.1 Military

2.5.2 Commercial

2.5.3 Consumer and Outdoor

2.5.4 Portable Solar Folding Panel Sales by Application

2.5.4.1 Global Portable Solar Folding Panel Sale Market Share by Application (2021-2026)

2.5.4.2 Global Portable Solar Folding Panel Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Portable Solar Folding Panel Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Portable Solar Folding Panel Breakdown Data by Company

3.1.1 Global Portable Solar Folding Panel Annual Sales by Company (2021-2026)

3.1.2 Global Portable Solar Folding Panel Sales Market Share by Company (2021-2026)

3.2 Global Portable Solar Folding Panel Annual Revenue by Company (2021-2026)

3.2.1 Global Portable Solar Folding Panel Revenue by Company (2021-2026)

3.2.2 Global Portable Solar Folding Panel Revenue Market Share by Company (2021-2026)

3.3 Global Portable Solar Folding Panel Sale Price by Company

3.4 Key Manufacturers Portable Solar Folding Panel Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers Portable Solar Folding Panel Product Location Distribution
- 3.4.2 Players Portable Solar Folding Panel 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 PORTABLE SOLAR FOLDING PANEL BY GEOGRAPHIC REGION

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

5 AMERICAS

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

6 APAC

6.1 APAC Portable Solar Folding Panel Sales by Region

6.1.1 APAC Portable Solar Folding Panel Sales by Region (2021-2026)

6.1.2 APAC Portable Solar Folding Panel Revenue by Region (2021-2026)

6.2 APAC Portable Solar Folding Panel Sales by Type (2021-2026)

6.3 APAC Portable Solar Folding Panel 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 Portable Solar Folding Panel by Country

7.1.1 Europe Portable Solar Folding Panel Sales by Country (2021-2026)

7.1.2 Europe Portable Solar Folding Panel Revenue by Country (2021-2026)

7.2 Europe Portable Solar Folding Panel Sales by Type (2021-2026)

7.3 Europe Portable Solar Folding Panel 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 Portable Solar Folding Panel by Country

8.1.1 Middle East & Africa Portable Solar Folding Panel Sales by Country (2021-2026)

8.1.2 Middle East & Africa Portable Solar Folding Panel Revenue by Country (2021-2026)

8.2 Middle East & Africa Portable Solar Folding Panel Sales by Type (2021-2026)

8.3 Middle East & Africa Portable Solar Folding Panel 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 Portable Solar Folding Panel

10.3 Manufacturing Process Analysis of Portable Solar Folding Panel

10.4 Industry Chain Structure of Portable Solar Folding Panel

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Portable Solar Folding Panel Distributors

11.3 Portable Solar Folding Panel Customer

12 WORLD FORECAST REVIEW FOR PORTABLE SOLAR FOLDING PANEL BY GEOGRAPHIC REGION

12.1 Global Portable Solar Folding Panel Market Size Forecast by Region

12.1.1 Global Portable Solar Folding Panel Forecast by Region (2027-2032)

12.1.2 Global Portable Solar Folding Panel 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 Portable Solar Folding Panel Forecast by Type (2027-2032)

12.7 Global Portable Solar Folding Panel Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Renogy

13.1.1 Renogy Company Information

13.1.2 Renogy Portable Solar Folding Panel Product Portfolios and Specifications

13.1.3 Renogy Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Renogy Main Business Overview

13.1.5 Renogy Latest Developments

13.2 HQST

13.2.1 HQST Company Information

13.2.2 HQST Portable Solar Folding Panel Product Portfolios and Specifications

13.2.3 HQST Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 HQST Main Business Overview

13.2.5 HQST Latest Developments

13.3 ACOPower

13.3.1 ACOPower Company Information

13.3.2 ACOPower Portable Solar Folding Panel Product Portfolios and Specifications

13.3.3 ACOPower Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 ACOPower Main Business Overview

13.3.5 ACOPower Latest Developments

13.4 Hovall Technology

13.4.1 Hovall Technology Company Information

13.4.2 Hovall Technology Portable Solar Folding Panel Product Portfolios and Specifications

13.4.3 Hovall Technology Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hovall Technology Main Business Overview

13.4.5 Hovall Technology Latest Developments

13.5 Link Solar

13.5.1 Link Solar Company Information

13.5.2 Link Solar Portable Solar Folding Panel Product Portfolios and Specifications

13.5.3 Link Solar Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Link Solar Main Business Overview

13.5.5 Link Solar Latest Developments

13.6 Go Power

- 13.6.1 Go Power Company Information
- 13.6.2 Go Power Portable Solar Folding Panel Product Portfolios and Specifications
- 13.6.3 Go Power Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 Go Power Main Business Overview
- 13.6.5 Go Power Latest Developments
- 13.7 Hinerger
 - 13.7.1 Hinerger Company Information
 - 13.7.2 Hinerger Portable Solar Folding Panel Product Portfolios and Specifications
 - 13.7.3 Hinerger Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Hinerger Main Business Overview
 - 13.7.5 Hinerger Latest Developments
- 13.8 Global Solar
 - 13.8.1 Global Solar Company Information
 - 13.8.2 Global Solar Portable Solar Folding Panel Product Portfolios and Specifications
 - 13.8.3 Global Solar Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Global Solar Main Business Overview
 - 13.8.5 Global Solar Latest Developments
- 13.9 Li Power Tech
 - 13.9.1 Li Power Tech Company Information
 - 13.9.2 Li Power Tech Portable Solar Folding Panel Product Portfolios and Specifications
 - 13.9.3 Li Power Tech Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Li Power Tech Main Business Overview
 - 13.9.5 Li Power Tech Latest Developments
- 13.10 Goal Zero
 - 13.10.1 Goal Zero Company Information
 - 13.10.2 Goal Zero Portable Solar Folding Panel Product Portfolios and Specifications
 - 13.10.3 Goal Zero Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Goal Zero Main Business Overview
 - 13.10.5 Goal Zero Latest Developments
- 13.11 PowerFilm Solar
 - 13.11.1 PowerFilm Solar Company Information
 - 13.11.2 PowerFilm Solar Portable Solar Folding Panel Product Portfolios and Specifications

13.11.3 PowerFilm Solar Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 PowerFilm Solar Main Business Overview

13.11.5 PowerFilm Solar Latest Developments

13.12 Foryou Optoelectronics Technology

13.12.1 Foryou Optoelectronics Technology Company Information

13.12.2 Foryou Optoelectronics Technology Portable Solar Folding Panel Product Portfolios and Specifications

13.12.3 Foryou Optoelectronics Technology Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Foryou Optoelectronics Technology Main Business Overview

13.12.5 Foryou Optoelectronics Technology Latest Developments

13.13 Ecoflow

13.13.1 Ecoflow Company Information

13.13.2 Ecoflow Portable Solar Folding Panel Product Portfolios and Specifications

13.13.3 Ecoflow Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Ecoflow Main Business Overview

13.13.5 Ecoflow Latest Developments

13.14 Newway Energy

13.14.1 Newway Energy Company Information

13.14.2 Newway Energy Portable Solar Folding Panel Product Portfolios and Specifications

13.14.3 Newway Energy Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Newway Energy Main Business Overview

13.14.5 Newway Energy Latest Developments

13.15 Zhejiang Chisolar

13.15.1 Zhejiang Chisolar Company Information

13.15.2 Zhejiang Chisolar Portable Solar Folding Panel Product Portfolios and Specifications

13.15.3 Zhejiang Chisolar Portable Solar Folding Panel Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Zhejiang Chisolar Main Business Overview

13.15.5 Zhejiang Chisolar Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Portable Solar Folding Panel Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Portable Solar Folding Panel Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Low Power (Under 100W)

Table 4. Major Players of Mid Power (100W?200W)

Table 5. Major Players of High Power (200W?400W)

Table 6. Major Players of Ultra High Power (Above 400W)

Table 7. Global Portable Solar Folding Panel Sales by Type (2021-2026) & (K Units)

Table 8. Global Portable Solar Folding Panel Sales Market Share by Type (2021-2026)

Table 9. Global Portable Solar Folding Panel Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Portable Solar Folding Panel Revenue Market Share by Type (2021-2026)

Table 11. Global Portable Solar Folding Panel Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Monocrystalline PERC

Table 13. Major Players of Monocrystalline TOPCon

Table 14. Major Players of Flexible Thin-Film

Table 15. Major Players of Back-Contact (IBC)

Table 16. Global Portable Solar Folding Panel Sales by Cell Technology (2021-2026) & (K Units)

Table 17. Global Portable Solar Folding Panel Sales Market Share by Cell Technology (2021-2026)

Table 18. Global Portable Solar Folding Panel Revenue by Cell Technology (2021-2026) & (\$ million)

Table 19. Global Portable Solar Folding Panel Revenue Market Share by Cell Technology (2021-2026)

Table 20. Global Portable Solar Folding Panel Sale Price by Cell Technology (2021-2026) & (US\$/Unit)

Table 21. Major Players of Soft Fabric Folding

Table 22. Major Players of Semi-Rigid Composite

Table 23. Major Players of Rigid Frame Folding

Table 24. Global Portable Solar Folding Panel Sales by Structural Design (2021-2026) & (K Units)

Table 25. Global Portable Solar Folding Panel Sales Market Share by Structural Design (2021-2026)

Table 26. Global Portable Solar Folding Panel Revenue by Structural Design (2021-2026) & (\$ million)

Table 27. Global Portable Solar Folding Panel Revenue Market Share by Structural Design (2021-2026)

Table 28. Global Portable Solar Folding Panel Sale Price by Structural Design (2021-2026) & (US\$/Unit)

Table 29. Global Portable Solar Folding Panel Sale by Application (2021-2026) & (K Units)

Table 30. Global Portable Solar Folding Panel Sale Market Share by Application (2021-2026)

Table 31. Global Portable Solar Folding Panel Revenue by Application (2021-2026) & (\$ million)

Table 32. Global Portable Solar Folding Panel Revenue Market Share by Application (2021-2026)

Table 33. Global Portable Solar Folding Panel Sale Price by Application (2021-2026) & (US\$/Unit)

Table 34. Global Portable Solar Folding Panel Sales by Company (2021-2026) & (K Units)

Table 35. Global Portable Solar Folding Panel Sales Market Share by Company (2021-2026)

Table 36. Global Portable Solar Folding Panel Revenue by Company (2021-2026) & (\$ millions)

Table 37. Global Portable Solar Folding Panel Revenue Market Share by Company (2021-2026)

Table 38. Global Portable Solar Folding Panel Sale Price by Company (2021-2026) & (US\$/Unit)

Table 39. Key Manufacturers Portable Solar Folding Panel Producing Area Distribution and Sales Area

Table 40. Players Portable Solar Folding Panel Products Offered

Table 41. Portable Solar Folding Panel Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 42. New Products and Potential Entrants

Table 43. Market M&A Activity & Strategy

Table 44. Global Portable Solar Folding Panel Sales by Geographic Region (2021-2026) & (K Units)

Table 45. Global Portable Solar Folding Panel Sales Market Share Geographic Region (2021-2026)

Table 46. Global Portable Solar Folding Panel Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 47. Global Portable Solar Folding Panel Revenue Market Share by Geographic Region (2021-2026)

Table 48. Global Portable Solar Folding Panel Sales by Country/Region (2021-2026) & (K Units)

Table 49. Global Portable Solar Folding Panel Sales Market Share by Country/Region (2021-2026)

Table 50. Global Portable Solar Folding Panel Revenue by Country/Region (2021-2026) & (\$ millions)

Table 51. Global Portable Solar Folding Panel Revenue Market Share by Country/Region (2021-2026)

Table 52. Americas Portable Solar Folding Panel Sales by Country (2021-2026) & (K Units)

Table 53. Americas Portable Solar Folding Panel Sales Market Share by Country (2021-2026)

Table 54. Americas Portable Solar Folding Panel Revenue by Country (2021-2026) & (\$ millions)

Table 55. Americas Portable Solar Folding Panel Sales by Type (2021-2026) & (K Units)

Table 56. Americas Portable Solar Folding Panel Sales by Application (2021-2026) & (K Units)

Table 57. APAC Portable Solar Folding Panel Sales by Region (2021-2026) & (K Units)

Table 58. APAC Portable Solar Folding Panel Sales Market Share by Region (2021-2026)

Table 59. APAC Portable Solar Folding Panel Revenue by Region (2021-2026) & (\$ millions)

Table 60. APAC Portable Solar Folding Panel Sales by Type (2021-2026) & (K Units)

Table 61. APAC Portable Solar Folding Panel Sales by Application (2021-2026) & (K Units)

Table 62. Europe Portable Solar Folding Panel Sales by Country (2021-2026) & (K Units)

Table 63. Europe Portable Solar Folding Panel Revenue by Country (2021-2026) & (\$ millions)

Table 64. Europe Portable Solar Folding Panel Sales by Type (2021-2026) & (K Units)

Table 65. Europe Portable Solar Folding Panel Sales by Application (2021-2026) & (K Units)

Table 66. Middle East & Africa Portable Solar Folding Panel Sales by Country (2021-2026) & (K Units)

Table 67. Middle East & Africa Portable Solar Folding Panel Revenue Market Share by Country (2021-2026)
Table 68. Middle East & Africa Portable Solar Folding Panel Sales by Type (2021-2026) & (K Units)
Table 69. Middle East & Africa Portable Solar Folding Panel Sales by Application (2021-2026) & (K Units)
Table 70. Key Market Drivers & Growth Opportunities of Portable Solar Folding Panel
Table 71. Key Market Challenges & Risks of Portable Solar Folding Panel
Table 72. Key Industry Trends of Portable Solar Folding Panel
Table 73. Portable Solar Folding Panel Raw Material
Table 74. Key Suppliers of Raw Materials
Table 75. Portable Solar Folding Panel Distributors List
Table 76. Portable Solar Folding Panel Customer List
Table 77. Global Portable Solar Folding Panel Sales Forecast by Region (2027-2032) & (K Units)
Table 78. Global Portable Solar Folding Panel Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Americas Portable Solar Folding Panel Sales Forecast by Country (2027-2032) & (K Units)
Table 80. Americas Portable Solar Folding Panel Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. APAC Portable Solar Folding Panel Sales Forecast by Region (2027-2032) & (K Units)
Table 82. APAC Portable Solar Folding Panel Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 83. Europe Portable Solar Folding Panel Sales Forecast by Country (2027-2032) & (K Units)
Table 84. Europe Portable Solar Folding Panel Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Middle East & Africa Portable Solar Folding Panel Sales Forecast by Country (2027-2032) & (K Units)
Table 86. Middle East & Africa Portable Solar Folding Panel Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 87. Global Portable Solar Folding Panel Sales Forecast by Type (2027-2032) & (K Units)
Table 88. Global Portable Solar Folding Panel Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 89. Global Portable Solar Folding Panel Sales Forecast by Application (2027-2032) & (K Units)

Table 90. Global Portable Solar Folding Panel Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. Renogy Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 92. Renogy Portable Solar Folding Panel Product Portfolios and Specifications

Table 93. Renogy Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. Renogy Main Business

Table 95. Renogy Latest Developments

Table 96. HQST Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 97. HQST Portable Solar Folding Panel Product Portfolios and Specifications

Table 98. HQST Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. HQST Main Business

Table 100. HQST Latest Developments

Table 101. ACOPower Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 102. ACOPower Portable Solar Folding Panel Product Portfolios and Specifications

Table 103. ACOPower Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. ACOPower Main Business

Table 105. ACOPower Latest Developments

Table 106. Hovall Technology Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 107. Hovall Technology Portable Solar Folding Panel Product Portfolios and Specifications

Table 108. Hovall Technology Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. Hovall Technology Main Business

Table 110. Hovall Technology Latest Developments

Table 111. Link Solar Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 112. Link Solar Portable Solar Folding Panel Product Portfolios and Specifications

Table 113. Link Solar Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Link Solar Main Business

Table 115. Link Solar Latest Developments

Table 116. Go Power Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 117. Go Power Portable Solar Folding Panel Product Portfolios and Specifications

Table 118. Go Power Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Go Power Main Business

Table 120. Go Power Latest Developments

Table 121. Hinerger Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 122. Hinerger Portable Solar Folding Panel Product Portfolios and Specifications

Table 123. Hinerger Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Hinerger Main Business

Table 125. Hinerger Latest Developments

Table 126. Global Solar Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 127. Global Solar Portable Solar Folding Panel Product Portfolios and Specifications

Table 128. Global Solar Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Global Solar Main Business

Table 130. Global Solar Latest Developments

Table 131. Li Power Tech Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 132. Li Power Tech Portable Solar Folding Panel Product Portfolios and Specifications

Table 133. Li Power Tech Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Li Power Tech Main Business

Table 135. Li Power Tech Latest Developments

Table 136. Goal Zero Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 137. Goal Zero Portable Solar Folding Panel Product Portfolios and Specifications

Table 138. Goal Zero Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Goal Zero Main Business

Table 140. Goal Zero Latest Developments

Table 141. PowerFilm Solar Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 142. PowerFilm Solar Portable Solar Folding Panel Product Portfolios and Specifications

Table 143. PowerFilm Solar Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. PowerFilm Solar Main Business

Table 145. PowerFilm Solar Latest Developments

Table 146. Foryou Optoelectronics Technology Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 147. Foryou Optoelectronics Technology Portable Solar Folding Panel Product Portfolios and Specifications

Table 148. Foryou Optoelectronics Technology Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. Foryou Optoelectronics Technology Main Business

Table 150. Foryou Optoelectronics Technology Latest Developments

Table 151. Ecoflow Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 152. Ecoflow Portable Solar Folding Panel Product Portfolios and Specifications

Table 153. Ecoflow Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. Ecoflow Main Business

Table 155. Ecoflow Latest Developments

Table 156. Newway Energy Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 157. Newway Energy Portable Solar Folding Panel Product Portfolios and Specifications

Table 158. Newway Energy Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Newway Energy Main Business

Table 160. Newway Energy Latest Developments

Table 161. Zhejiang Chisolar Basic Information, Portable Solar Folding Panel Manufacturing Base, Sales Area and Its Competitors

Table 162. Zhejiang Chisolar Portable Solar Folding Panel Product Portfolios and Specifications

Table 163. Zhejiang Chisolar Portable Solar Folding Panel Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. Zhejiang Chisolar Main Business

Table 165. Zhejiang Chisolar Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Portable Solar Folding Panel

Figure 2. Portable Solar Folding Panel Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Portable Solar Folding Panel Sales Growth Rate 2021-2032 (K Units)

Figure 7. Global Portable Solar Folding Panel Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Portable Solar Folding Panel Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Portable Solar Folding Panel Sales Market Share by Country/Region (2025)

Figure 10. Portable Solar Folding Panel Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Low Power (Under 100W)

Figure 12. Product Picture of Mid Power (100W?200W)

Figure 13. Product Picture of High Power (200W?400W)

Figure 14. Product Picture of Ultra High Power (Above 400W)

Figure 15. Global Portable Solar Folding Panel Sales Market Share by Type in 2026

Figure 16. Global Portable Solar Folding Panel Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Monocrystalline PERC

Figure 18. Product Picture of Monocrystalline TOPCon

Figure 19. Product Picture of Flexible Thin-Film

Figure 20. Product Picture of Back-Contact (IBC)

Figure 21. Global Portable Solar Folding Panel Sales Market Share by Cell Technology in 2026

Figure 22. Global Portable Solar Folding Panel Revenue Market Share by Cell Technology (2021-2026)

Figure 23. Product Picture of Soft Fabric Folding

Figure 24. Product Picture of Semi-Rigid Composite

Figure 25. Product Picture of Rigid Frame Folding

Figure 26. Global Portable Solar Folding Panel Sales Market Share by Structural Design in 2026

Figure 27. Global Portable Solar Folding Panel Revenue Market Share by Structural Design (2021-2026)

Figure 28. Portable Solar Folding Panel Consumed in Military

Figure 29. Global Portable Solar Folding Panel Market: Military (2021-2026) & (K Units)

Figure 30. Portable Solar Folding Panel Consumed in Commercial

Figure 31. Global Portable Solar Folding Panel Market: Commercial (2021-2026) & (K Units)

Figure 32. Portable Solar Folding Panel Consumed in Consumer and Outdoor

Figure 33. Global Portable Solar Folding Panel Market: Consumer and Outdoor (2021-2026) & (K Units)

Figure 34. Global Portable Solar Folding Panel Sale Market Share by Application (2025)

Figure 35. Global Portable Solar Folding Panel Revenue Market Share by Application in 2025

Figure 36. Portable Solar Folding Panel Sales by Company in 2025 (K Units)

Figure 37. Global Portable Solar Folding Panel Sales Market Share by Company in 2025

Figure 38. Portable Solar Folding Panel Revenue by Company in 2025 (\$ millions)

Figure 39. Global Portable Solar Folding Panel Revenue Market Share by Company in 2025

Figure 40. Global Portable Solar Folding Panel Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Portable Solar Folding Panel Revenue Market Share by Geographic Region in 2025

Figure 42. Americas Portable Solar Folding Panel Sales 2021-2026 (K Units)

Figure 43. Americas Portable Solar Folding Panel Revenue 2021-2026 (\$ millions)

Figure 44. APAC Portable Solar Folding Panel Sales 2021-2026 (K Units)

Figure 45. APAC Portable Solar Folding Panel Revenue 2021-2026 (\$ millions)

Figure 46. Europe Portable Solar Folding Panel Sales 2021-2026 (K Units)

Figure 47. Europe Portable Solar Folding Panel Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Portable Solar Folding Panel Sales 2021-2026 (K Units)

Figure 49. Middle East & Africa Portable Solar Folding Panel Revenue 2021-2026 (\$ millions)

Figure 50. Americas Portable Solar Folding Panel Sales Market Share by Country in 2025

Figure 51. Americas Portable Solar Folding Panel Revenue Market Share by Country (2021-2026)

Figure 52. Americas Portable Solar Folding Panel Sales Market Share by Type (2021-2026)

Figure 53. Americas Portable Solar Folding Panel Sales Market Share by Application (2021-2026)

Figure 54. United States Portable Solar Folding Panel Revenue Growth 2021-2026 (\$

millions)

Figure 55. Canada Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Portable Solar Folding Panel Sales Market Share by Region in 2025

Figure 59. APAC Portable Solar Folding Panel Revenue Market Share by Region (2021-2026)

Figure 60. APAC Portable Solar Folding Panel Sales Market Share by Type (2021-2026)

Figure 61. APAC Portable Solar Folding Panel Sales Market Share by Application (2021-2026)

Figure 62. China Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 66. India Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe Portable Solar Folding Panel Sales Market Share by Country in 2025

Figure 70. Europe Portable Solar Folding Panel Revenue Market Share by Country (2021-2026)

Figure 71. Europe Portable Solar Folding Panel Sales Market Share by Type (2021-2026)

Figure 72. Europe Portable Solar Folding Panel Sales Market Share by Application (2021-2026)

Figure 73. Germany Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 74. France Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Portable Solar Folding Panel Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa Portable Solar Folding Panel Sales Market Share by

Type (2021-2026)

Figure 80. Middle East & Africa Portable Solar Folding Panel Sales Market Share by Application (2021-2026)

Figure 81. Egypt Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Portable Solar Folding Panel Revenue Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of Portable Solar Folding Panel in 2026

Figure 87. Manufacturing Process Analysis of Portable Solar Folding Panel

Figure 88. Industry Chain Structure of Portable Solar Folding Panel

Figure 89. Channels of Distribution

Figure 90. Global Portable Solar Folding Panel Sales Market Forecast by Region (2027-2032)

Figure 91. Global Portable Solar Folding Panel Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global Portable Solar Folding Panel Sales Market Share Forecast by Type (2027-2032)

Figure 93. Global Portable Solar Folding Panel Revenue Market Share Forecast by Type (2027-2032)

Figure 94. Global Portable Solar Folding Panel Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global Portable Solar Folding Panel Revenue Market Share Forecast by Application (2027-2032)

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