

Global Portable Folding Solar Panels Market Growth 2026-2032

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Abstracts

The global Portable Folding Solar Panels market size is predicted to grow from US\$ 765 million in 2025 to US\$ 1233 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

Portable Folding Solar Panels are foldable, carryable photovoltaic modules designed as off-grid power inputs to recharge devices and portable energy storage when grid electricity is unavailable, unreliable, or inconvenient, addressing the core problem of “bringing repeatable power to the point of use.” They offer a quieter, lower-maintenance alternative to fuel generators and reduce reliance on disposable batteries, making them well-suited for camping and RV travel, field work, emergency preparedness and disaster response, remote inspections, and other mobile scenarios. Historically, early portable solar products were typically low-wattage chargers with limited durability, inconsistent output, and fragmented connectors; as crystalline-silicon cell efficiency improved, lamination and encapsulation processes matured, and connectors/wiring became more standardized—alongside the rapid adoption of portable power stations—the category evolved toward higher usable output, better environmental robustness, and more system-oriented compatibility. Upstream inputs span both the PV materials chain and the outdoor hardware chain: key materials include polysilicon/wafer/cell supply, conductive pastes and metal interconnect materials, encapsulants (EVA/POE), backsheets or composite substrates, front protective layers (glass or polymer films), and sealants/adhesives; key components include junction boxes, bypass diodes, busbars/ribbons, cables and wiring harnesses, connectors and adapters, optional integrated DC-DC/USB output and protection modules, plus mechanical and textile elements such as stands, hinges, fabric shells, zippers/Velcro, and reinforcement plates. Corresponding supplier types include silicon/wafer and cell producers, module-material and encapsulation suppliers, conductive paste and

film/backsheet manufacturers, discrete semiconductor and power electronics suppliers, connector and cable-harness makers, plastics and metal hardware providers, outdoor textile/composite suppliers, and contract manufacturers handling lamination, die-cutting, sewing, and final assembly. In 2025, the global production capacity of portable folding solar panels reached 5 million units. Global sales volume amounted to 4.26 million units, with an average selling price of USD 183.5 per unit. The gross profit margin of enterprises ranged between 25% and 35%.

The market today is characterized by broader demand, more diversified offerings, and persistent information noise. Outdoor leisure and lightweight travel continue to pull mainstream consumers in, while preparedness mindsets, power-outage concerns, and mobile/field-work routines expand usage beyond niche enthusiasts. On the supply side, products are rapidly stratifying: entry-level options focus on basic functionality and affordability, whereas mid-to-high tiers compete on consistent real-world output, durability under repeated folding and harsh environments, and smoother pairing with portable power stations. Differentiation is increasingly driven by materials (glass versus polymer/composite frontsheets), mechanical formats (soft-folding, semi-rigid, framed folding), and interface choices (DC connectors, common modular connectors, optional integrated USB output). At the same time, the market's friction points remain obvious—gaps between claimed specs and field performance, compatibility issues across varying input requirements, losses and failures caused by inconsistent cable/connector quality, and uneven warranty/service practices—so consumers lean heavily on reviews, community feedback, and retailer support, pushing reputable brands to compete on verifiable performance and service rather than headline numbers.

Future development will center on tighter system integration, clearer standardization and disclosure, lighter yet tougher build approaches, and more user-friendly “smart” experience layers. Integration means products will be positioned as parts of a cohesive mobile energy setup, with clearer protection boundaries, fewer adapters, properly sized wiring, and better MPPT/charging behavior—often bundled with scenario-specific accessories like stands, extension cables, parallel combiners, and protective storage. Standardization and transparency should reduce purchase friction through more consistent interfaces and labeling, plus more realistic claims that acknowledge common operating conditions such as heat, low light, and partial shading. Lightweight durability will keep advancing through improved UV- and abrasion-resistant outer films, fatigue-resistant folding structures and stress management, better thermal handling to reduce hot spots and derating, and reliability-first expectations around water/dust resistance and corrosion tolerance. On the usability front, more products will provide clearer status visibility, diagnostics, and placement guidance, and better coordination with the storage

side—whether or not everything is connected—so users can understand what’s happening and how to optimize rather than guessing.

Drivers and barriers will coexist for the foreseeable future, enabling rapid iteration while accelerating shakeouts. Key drivers include rising preference for quiet, low-maintenance renewable charging (reinforced by the spread of portable power stations), improving manufacturing maturity that makes higher reliability easier to deliver consistently, and the influence of content-and-channel ecosystems that educate buyers through real-world scenarios and buying checklists. Major barriers stem from inherent variability—weather and positioning can swing outcomes and amplify disappointment if expectations are poorly set—plus the complexity of compatibility and safety boundaries across different power-station inputs, subpar cables/connectors, and riskier configurations such as parallel use. Information asymmetry and inconsistent claim standards also allow low-quality products to distort perceptions, raising education and support costs for better brands. In practice, sustainable advantage tends to come not from louder specs, but from closing the loop on real-world usability, predictable compatibility, robust safety margins, long-term durability, and dependable service—communicated with transparent, verifiable disclosures.

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

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

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

This report presents a comprehensive overview, market shares, and growth opportunities of Portable Folding Solar Panels 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

Shenzhen Hello Tech Energy

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

BLUETTI

Sunport Power

Key Questions Addressed in this Report

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

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

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

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

How does Portable Folding Solar Panels 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 Folding Solar Panels Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Portable Folding Solar Panels by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Portable Folding Solar Panels by Country/Region, 2021, 2025 & 2032

2.2 Portable Folding Solar Panels 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 Folding Solar Panels Sales by Type
 - 2.2.5.1 Global Portable Folding Solar Panels Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Portable Folding Solar Panels Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Portable Folding Solar Panels Sale Price by Type (2021-2026)

2.3 Portable Folding Solar Panels 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 Folding Solar Panels Sales by Cell Technology
 - 2.3.5.1 Global Portable Folding Solar Panels Sales Market Share by Cell Technology

(2021-2026)

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

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

2.4 Portable Folding Solar Panels 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 Folding Solar Panels Sales by Structural Design

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

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

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

2.5 Portable Folding Solar Panels Segment by Application

2.5.1 Military

2.5.2 Commercial

2.5.3 Consumer and Outdoor

2.5.4 Portable Folding Solar Panels Sales by Application

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

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

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

3 GLOBAL BY COMPANY

3.1 Global Portable Folding Solar Panels Breakdown Data by Company

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

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

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

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

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

3.3 Global Portable Folding Solar Panels Sale Price by Company

3.4 Key Manufacturers Portable Folding Solar Panels Producing Area Distribution,

Sales Area, Product Type

3.4.1 Key Manufacturers Portable Folding Solar Panels Product Location Distribution

3.4.2 Players Portable Folding Solar Panels 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 FOLDING SOLAR PANELS BY GEOGRAPHIC REGION

4.1 World Historic Portable Folding Solar Panels Market Size by Geographic Region (2021-2026)

4.1.1 Global Portable Folding Solar Panels Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Portable Folding Solar Panels Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Portable Folding Solar Panels Market Size by Country/Region (2021-2026)

4.2.1 Global Portable Folding Solar Panels Annual Sales by Country/Region (2021-2026)

4.2.2 Global Portable Folding Solar Panels Annual Revenue by Country/Region (2021-2026)

4.3 Americas Portable Folding Solar Panels Sales Growth

4.4 APAC Portable Folding Solar Panels Sales Growth

4.5 Europe Portable Folding Solar Panels Sales Growth

4.6 Middle East & Africa Portable Folding Solar Panels Sales Growth

5 AMERICAS

5.1 Americas Portable Folding Solar Panels Sales by Country

5.1.1 Americas Portable Folding Solar Panels Sales by Country (2021-2026)

5.1.2 Americas Portable Folding Solar Panels Revenue by Country (2021-2026)

5.2 Americas Portable Folding Solar Panels Sales by Type (2021-2026)

5.3 Americas Portable Folding Solar Panels Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Portable Folding Solar Panels Sales by Region

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

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

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

6.3 APAC Portable Folding Solar Panels 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 Folding Solar Panels by Country

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

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

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

7.3 Europe Portable Folding Solar Panels 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 Folding Solar Panels by Country

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

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

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

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

10.3 Manufacturing Process Analysis of Portable Folding Solar Panels

10.4 Industry Chain Structure of Portable Folding Solar Panels

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Portable Folding Solar Panels Distributors

11.3 Portable Folding Solar Panels Customer

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

12.1 Global Portable Folding Solar Panels Market Size Forecast by Region

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

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

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

13 KEY PLAYERS ANALYSIS

13.1 Renogy

13.1.1 Renogy Company Information

13.1.2 Renogy Portable Folding Solar Panels Product Portfolios and Specifications

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

13.1.4 Renogy Main Business Overview

13.1.5 Renogy Latest Developments

13.2 Shenzhen Hello Tech Energy

13.2.1 Shenzhen Hello Tech Energy Company Information

13.2.2 Shenzhen Hello Tech Energy Portable Folding Solar Panels Product Portfolios and Specifications

13.2.3 Shenzhen Hello Tech Energy Portable Folding Solar Panels Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Shenzhen Hello Tech Energy Main Business Overview

13.2.5 Shenzhen Hello Tech Energy Latest Developments

13.3 ACOPower

13.3.1 ACOPower Company Information

13.3.2 ACOPower Portable Folding Solar Panels Product Portfolios and Specifications

13.3.3 ACOPower Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications

13.4.3 Hovall Technology Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications

13.5.3 Link Solar Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications

13.6.3 Go Power Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications

13.7.3 Hinerger Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and

Specifications

13.8.3 Global Solar Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and

Specifications

13.9.3 Li Power Tech Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications

13.10.3 Goal Zero Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications
 - 13.11.3 PowerFilm Solar Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications
 - 13.12.3 Foryou Optoelectronics Technology Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications
 - 13.13.3 Ecoflow Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications
 - 13.14.3 Newway Energy Portable Folding Solar Panels 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 Folding Solar Panels Product Portfolios and Specifications
 - 13.15.3 Zhejiang Chisolar Portable Folding Solar Panels Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Zhejiang Chisolar Main Business Overview

13.15.5 Zhejiang Chisolar Latest Developments

13.16 BLUETTI

13.16.1 BLUETTI Company Information

13.16.2 BLUETTI Portable Folding Solar Panels Product Portfolios and Specifications

13.16.3 BLUETTI Portable Folding Solar Panels Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 BLUETTI Main Business Overview

13.16.5 BLUETTI Latest Developments

13.17 Sunport Power

13.17.1 Sunport Power Company Information

13.17.2 Sunport Power Portable Folding Solar Panels Product Portfolios and Specifications

13.17.3 Sunport Power Portable Folding Solar Panels Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Sunport Power Main Business Overview

13.17.5 Sunport Power Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

Table 2. Portable Folding Solar Panels 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 Folding Solar Panels Sales by Type (2021-2026) & (K Units)

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

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

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

Table 11. Global Portable Folding Solar Panels 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 Folding Solar Panels Sales by Cell Technology (2021-2026) & (K Units)

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

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

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

Table 20. Global Portable Folding Solar Panels 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 Folding Solar Panels Sales by Structural Design (2021-2026) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 40. Players Portable Folding Solar Panels Products Offered

Table 41. Portable Folding Solar Panels 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 Folding Solar Panels Sales by Geographic Region (2021-2026) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 66. Middle East & Africa Portable Folding Solar Panels Sales by Country

(2021-2026) & (K Units)

Table 67. Middle East & Africa Portable Folding Solar Panels Revenue Market Share by Country (2021-2026)

Table 68. Middle East & Africa Portable Folding Solar Panels Sales by Type (2021-2026) & (K Units)

Table 69. Middle East & Africa Portable Folding Solar Panels Sales by Application (2021-2026) & (K Units)

Table 70. Key Market Drivers & Growth Opportunities of Portable Folding Solar Panels

Table 71. Key Market Challenges & Risks of Portable Folding Solar Panels

Table 72. Key Industry Trends of Portable Folding Solar Panels

Table 73. Portable Folding Solar Panels Raw Material

Table 74. Key Suppliers of Raw Materials

Table 75. Portable Folding Solar Panels Distributors List

Table 76. Portable Folding Solar Panels Customer List

Table 77. Global Portable Folding Solar Panels Sales Forecast by Region (2027-2032) & (K Units)

Table 78. Global Portable Folding Solar Panels Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Americas Portable Folding Solar Panels Sales Forecast by Country (2027-2032) & (K Units)

Table 80. Americas Portable Folding Solar Panels Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. APAC Portable Folding Solar Panels Sales Forecast by Region (2027-2032) & (K Units)

Table 82. APAC Portable Folding Solar Panels Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Europe Portable Folding Solar Panels Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Europe Portable Folding Solar Panels Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Middle East & Africa Portable Folding Solar Panels Sales Forecast by Country (2027-2032) & (K Units)

Table 86. Middle East & Africa Portable Folding Solar Panels Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Global Portable Folding Solar Panels Sales Forecast by Type (2027-2032) & (K Units)

Table 88. Global Portable Folding Solar Panels Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Portable Folding Solar Panels Sales Forecast by Application

(2027-2032) & (K Units)

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

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

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

Table 93. Renogy Portable Folding Solar Panels 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. Shenzhen Hello Tech Energy Basic Information, Portable Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

Table 97. Shenzhen Hello Tech Energy Portable Folding Solar Panels Product Portfolios and Specifications

Table 98. Shenzhen Hello Tech Energy Portable Folding Solar Panels Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. Shenzhen Hello Tech Energy Main Business

Table 100. Shenzhen Hello Tech Energy Latest Developments

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

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

Table 103. ACOPower Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 108. Hovall Technology Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 113. Link Solar Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 118. Go Power Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 123. Hinerger Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 128. Global Solar Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 133. Li Power Tech Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 138. Goal Zero Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 143. PowerFilm Solar Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 148. Foryou Optoelectronics Technology Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 153. Ecoflow Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 158. Newway Energy Portable Folding Solar Panels 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 Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

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

Table 163. Zhejiang Chisolar Portable Folding Solar Panels 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

Table 166. BLUETTI Basic Information, Portable Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

Table 167. BLUETTI Portable Folding Solar Panels Product Portfolios and Specifications

Table 168. BLUETTI Portable Folding Solar Panels Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. BLUETTI Main Business

Table 170. BLUETTI Latest Developments

Table 171. Sunport Power Basic Information, Portable Folding Solar Panels Manufacturing Base, Sales Area and Its Competitors

Table 172. Sunport Power Portable Folding Solar Panels Product Portfolios and Specifications

Table 173. Sunport Power Portable Folding Solar Panels Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. Sunport Power Main Business

Table 175. Sunport Power Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Portable Folding Solar Panels
- Figure 2. Portable Folding Solar Panels Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Portable Folding Solar Panels Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Portable Folding Solar Panels Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Portable Folding Solar Panels Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Portable Folding Solar Panels Sales Market Share by Country/Region (2025)
- Figure 10. Portable Folding Solar Panels 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 Folding Solar Panels Sales Market Share by Type in 2026
- Figure 16. Global Portable Folding Solar Panels 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 Folding Solar Panels Sales Market Share by Cell Technology in 2026
- Figure 22. Global Portable Folding Solar Panels 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 Folding Solar Panels Sales Market Share by Structural Design in 2026
- Figure 27. Global Portable Folding Solar Panels Revenue Market Share by Structural Design (2021-2026)

Figure 28. Portable Folding Solar Panels Consumed in Military

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

Figure 30. Portable Folding Solar Panels Consumed in Commercial

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 79. Middle East & Africa Portable Folding Solar Panels Sales Market Share by Type (2021-2026)

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

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

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

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

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

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

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

Figure 87. Manufacturing Process Analysis of Portable Folding Solar Panels

Figure 88. Industry Chain Structure of Portable Folding Solar Panels

Figure 89. Channels of Distribution

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

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

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

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

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

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

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