

Asia Pacific Portable Integrated Photovoltaic Market Size and Forecast (2021 - 2031)

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Abstracts

The Asia Pacific Portable Integrated Photovoltaic (PIPV) Market is projected to experience significant growth, with an expected market size of approximately US\$ 1,138.0 million by 2031, up from US\$ 396.2 million in 2024. This growth translates to a compound annual growth rate (CAGR) of 16.4% from 2025 to 2031, indicating a robust demand for portable solar energy solutions in the region.

Executive Summary and Market Analysis

Portable integrated photovoltaics are increasingly utilized in various applications, particularly in remote areas where they serve as emergency power backups and support recreational activities. These solar solutions are capable of powering a range of autonomous devices, tools, and meters, making them versatile for urban and rural settings alike. They can effectively meet the electricity needs of parking meters, temporary traffic signals, emergency telephones, radio transmitters, irrigation pumps, flow meters, lighting systems, and refrigeration units. Moreover, the military sector is leveraging these technologies for charging electronic equipment in field operations and remote locations.

As the economies of the Asia Pacific region, especially China and India, continue to expand, there is a growing interest in outdoor recreational activities. This trend is driving the demand for portable power stations, solar chargers, and other compact solar products. The rapid economic development and increased consumer spending on leisure activities are key factors propelling market growth in the Asia Pacific.

Strategic Insights

Market Segmentation

The Asia Pacific Portable Integrated Photovoltaic Market is segmented by application into two primary categories: Emergency Power Backup and Leisure and Recreational Activities. In 2024, the Leisure and Recreational Activities segment is expected to hold the largest market share, reflecting the increasing consumer preference for portable solar solutions in outdoor settings.

Market Outlook

With the rising global awareness of climate change and environmental issues, consumers are increasingly prioritizing products that contribute to a sustainable future. This shift in consumer values presents a significant opportunity for businesses that can market their offerings as eco-friendly alternatives to conventional energy sources. According to the Sustainable Development Goals Report 2023, renewable energy sources account for nearly 30% of global energy consumption in the electricity sector, although challenges remain in the heating and transport sectors. The percentage of the global population with access to clean cooking fuels and technologies rose from 64% in 2015 to 71% in 2021.

Today's consumers are well-informed and concerned about the environmental impact of their purchases. Many are willing to pay a premium for products that align with their sustainability values. Portable integrated photovoltaics enable users to harness clean, renewable energy from the sun, thereby reducing reliance on fossil fuels and minimizing carbon footprints. By utilizing solar energy, consumers can power their devices and equipment in an environmentally responsible manner, making PIPVs an appealing option for the growing eco-conscious market.

Country Insights

The Asia Pacific Portable Integrated Photovoltaic Market is further segmented by country, including China, Australia, Japan, India, South Korea, and the Rest of Asia Pacific. In 2024, China is anticipated to hold the largest market share.

China has seen substantial growth in its renewable energy sectors, particularly in solar and wind energy. The rising living standards in the country have led to increased demand for consumer electronics, especially those used in outdoor activities and remote locations. The expanding middle class and rising disposable incomes in China have contributed to a surge in leisure and recreational activities, which in turn drives the

demand for portable power devices for lighting, heating, and refrigeration.

As the global leader in solar power installations, China has a high level of awareness regarding solar energy generation and devices. According to the General Administration of Sport of China, the outdoor sports sector is projected to exceed US\$ 400 billion in market size by 2024, with outdoor sports participation increasing by over 30% in the past two years. This growth has led to a rising need for solar chargers, power banks, RV refrigerators, and portable power stations to meet the demand for charging electronic devices and powering small appliances, further fueling market growth.

Company Profiles

Key players in the Asia Pacific Portable Integrated Photovoltaic Market include Duracell Inc, ALLPOWERS Industrial International Co., Ltd., EcoFlow Inc, Jackery Inc., Bluetti Power Inc, RICH Solar, Renogy International, BioLite, PowerFilm Solar, Inc., and ACOPower. These companies are employing various strategies such as market expansion, product innovation, and mergers and acquisitions to enhance their product offerings and increase their market share.

In conclusion, the Asia Pacific Portable Integrated Photovoltaic Market is poised for significant growth driven by increasing consumer demand for sustainable energy solutions, particularly in the context of outdoor and emergency applications. As awareness of environmental issues continues to rise, the market for portable solar technologies is expected to expand rapidly.

Contents

1. INTRODUCTION

- 1.1 Report Guidance
- 1.2 Market Segmentation

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macroeconomic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country-level data:

4. PORTABLE INTEGRATED PHOTOVOLTAIC MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 PEST Analysis
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers
 - 4.3.2 Manufacturers
 - 4.3.3 Distributors or Suppliers
 - 4.3.4 End-Use Industry
 - 4.3.5 List of Vendors in the Value Chain

5. ASIA PACIFIC PORTABLE INTEGRATED PHOTOVOLTAIC MARKET - KEY MARKET DYNAMICS

- 5.1 Market Drivers
- 5.2 Market Restraints
- 5.3 Market Opportunities

5.4 Future Trends

5.5 Impact of Drivers and Restraints:

6. PORTABLE INTEGRATED PHOTOVOLTAIC MARKET - ASIA PACIFIC MARKET ANALYSIS

6.1 Asia Pacific Portable Integrated Photovoltaic Market Revenue (US\$ Million), 2024 - 2031

6.2 Asia Pacific Portable Integrated Photovoltaic Market Forecast and Analysis

7. ASIA PACIFIC PORTABLE INTEGRATED PHOTOVOLTAIC MARKET REVENUE ANALYSIS - BY APPLICATION

7.1 Emergency Power Backup

7.1.1 Overview

7.1.2 Emergency Power Backup: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

7.2 Leisure and Recreational Activities

7.2.1 Overview

7.2.2 Leisure and Recreational Activities: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8. ASIA PACIFIC PORTABLE INTEGRATED PHOTOVOLTAIC MARKET - COUNTRY ANALYSIS

8.1 Asia Pacific

8.1.1 Asia Pacific Portable Integrated Photovoltaic Market Revenue and Forecast and Analysis - by Country

8.1.1.1 Asia Pacific Portable Integrated Photovoltaic Market Revenue and Forecast and Analysis - by Country

8.1.2.2 China: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.1.2.2.1 China: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

8.2.3.3 Australia: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.2.3.3.1 Australia: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

8.3.4.4 Japan: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and

Forecast, 2021 - 2031 (US\$ Million)

8.3.4.4.1 Japan: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

8.4.5.5 India: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.4.5.5.1 India: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

8.5.6.6 South Korea: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.5.6.6.1 South Korea: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

8.6.7.7 Rest of Asia Pacific: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

8.6.7.7.1 Rest of Asia Pacific: Asia Pacific Portable Integrated Photovoltaic Market Share - by Application

9 COMPETITIVE LANDSCAPE

9.1 Heat Map Analysis by Key Players

9.2 Company Positioning & Concentration

10 INDUSTRY LANDSCAPE

10.1 Overview

10.2 New Product Development

10.3 Merger and Acquisition

10.4 Other Strategic Developments

11 COMPANY PROFILES

11.1 Duracell Inc

11.1.1 Key Facts

11.1.2 Business Description

11.1.3 Products and Services

11.1.4 Financial Overview

11.1.5 SWOT Analysis

11.1.6 Key Developments

11.2 ALLPOWERS Industrial International Co., Ltd.

11.2.1 Key Facts

- 11.2.2 Business Description
- 11.2.3 Products and Services
- 11.2.4 Financial Overview
- 11.2.5 SWOT Analysis
- 11.2.6 Key Developments
- 11.3 EcoFlow Inc
 - 11.3.1 Key Facts
 - 11.3.2 Business Description
 - 11.3.3 Products and Services
 - 11.3.4 Financial Overview
 - 11.3.5 SWOT Analysis
 - 11.3.6 Key Developments
- 11.4 Jackery Inc.
 - 11.4.1 Key Facts
 - 11.4.2 Business Description
 - 11.4.3 Products and Services
 - 11.4.4 Financial Overview
 - 11.4.5 SWOT Analysis
 - 11.4.6 Key Developments
- 11.5 Bluetti Power Inc
 - 11.5.1 Key Facts
 - 11.5.2 Business Description
 - 11.5.3 Products and Services
 - 11.5.4 Financial Overview
 - 11.5.5 SWOT Analysis
 - 11.5.6 Key Developments
- 11.6 RICH Solar
 - 11.6.1 Key Facts
 - 11.6.2 Business Description
 - 11.6.3 Products and Services
 - 11.6.4 Financial Overview
 - 11.6.5 SWOT Analysis
 - 11.6.6 Key Developments
- 11.7 Renogy International
 - 11.7.1 Key Facts
 - 11.7.2 Business Description
 - 11.7.3 Products and Services
 - 11.7.4 Financial Overview
 - 11.7.5 SWOT Analysis

11.7.6 Key Developments

11.8 BioLite

11.8.1 Key Facts

11.8.2 Business Description

11.8.3 Products and Services

11.8.4 Financial Overview

11.8.5 SWOT Analysis

11.8.6 Key Developments

11.9 PowerFilm Solar, Inc.

11.9.1 Key Facts

11.9.2 Business Description

11.9.3 Products and Services

11.9.4 Financial Overview

11.9.5 SWOT Analysis

11.9.6 Key Developments

11.10 ACOPower

11.10.1 Key Facts

11.10.2 Business Description

11.10.3 Products and Services

11.10.4 Financial Overview

11.10.5 SWOT Analysis

11.10.6 Key Developments

12. APPENDIX

12.1 About The Insight Partners

List Of Tables

LIST OF TABLES

Table 1. Asia Pacific Portable Integrated Photovoltaic Market Segmentation

Table 2. List of Vendors

Table 3. Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Table 4. Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 5. Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Country

Table 6. China: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 7. Australia: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 8. Japan: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 9. India: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 10. South Korea: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 11. Rest of Asia Pacific: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million) - by Application

Table 12. Heat Map Analysis by Key Players

List Of Figures

LIST OF FIGURES

Figure 1. Asia Pacific Portable Integrated Photovoltaic Market Segmentation - Country

Figure 2. PEST Analysis

Figure 3. Ecosystem: Portable Integrated Photovoltaic Market

Figure 4. Asia Pacific Portable Integrated Photovoltaic Market - Key Market Dynamics

Figure 5. Impact Analysis of Drivers and Restraints

Figure 6. Asia Pacific Portable Integrated Photovoltaic Market Revenue (US\$ Million), 2024 - 2031

Figure 7. Asia Pacific Portable Integrated Photovoltaic Market Share (%) - by Application, 2024 and 2031

Figure 8. Emergency Power Backup: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 9. Leisure and Recreational Activities: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 10. Asia Pacific Portable Integrated Photovoltaic Market Breakdown by Key Countries, 2024 and 2031 (%)

Figure 11. China: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 12. Australia: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 13. Japan: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 14. India: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 15. South Korea: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 16. Rest of Asia Pacific: Asia Pacific Portable Integrated Photovoltaic Market - Revenue and Forecast, 2021 - 2031 (US\$ Million)

Figure 17. Company Positioning & Concentration

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