

Global All-in-One Balcony ESS Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global All-in-One Balcony ESS market size is expected to reach \$ 5741 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

A balcony PV & energy storage all-in-one unit is a mini residential distributed photovoltaic energy storage device designed for low-threshold installation scenarios such as apartment balconies, terraces and small residential facades. It typically integrates battery packs, BMS, MPPT, inverter/microinverter or PCS, EMS, communication and protection modules in a single unit or quasi-integrated kit, enabling PV power access, electrical energy storage, household load power supply and energy scheduling. This product emphasizes plug-and-play usability, lightweight installation, modular capacity expansion, self-consumption of generated power, peak-valley optimization and light backup power functions. It is suitable for residential distributed energy applications in regions where balcony PV is widely adopted, such as Europe. In 2025, the global sales volume of All-in-One Balcony ESS reached approximately 1.62 million units, with an average selling price of around US\$1,800 per unit and an average industry gross margin of about 35%.

The All-in-One Balcony ESS market is undergoing a profound shift from standalone PV systems to integrated PV-storage solutions. The core European market continues to expand, and products are moving toward All-in-One integrated design, with plug-and-play functionality and lightweight installation becoming mainstream, significantly improving convenience and safety. Intelligence has become a key upgrade direction, and products equipped with AI energy management algorithms, peak-valley price optimization and smart home connectivity are gaining rapid popularity. Intensifying market competition has accelerated brand deployment and diversified product forms, while the market is quickly expanding from Europe to emerging regions including Asia

Pacific and North America. The industry is gradually moving away from low-price competition, upgrading toward higher integration, intelligence and scenario-based applications, entering a critical stage of large-scale adoption and in-depth technological iteration.

This report studies the global All-in-One Balcony ESS production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for All-in-One Balcony ESS and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of All-in-One Balcony ESS that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global All-in-One Balcony ESS total production and demand, 2021-2032, (K Units)

Global All-in-One Balcony ESS total production value, 2021-2032, (USD Million)

Global All-in-One Balcony ESS production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global All-in-One Balcony ESS consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: All-in-One Balcony ESS domestic production, consumption, key domestic manufacturers and share

Global All-in-One Balcony ESS production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global All-in-One Balcony ESS production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global All-in-One Balcony ESS production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global All-in-One Balcony ESS market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shenzhen Hello Tech Energy Co., Ltd., EcoFlow, Zendure, Marstek Energy, VigorPool, Growatt, Hoymiles, Ecosolex, APsystems, Hinen, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World All-in-One Balcony ESS market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global All-in-One Balcony ESS Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global All-in-One Balcony ESS Market, Segmentation by Type:

Grid-Tied Balcony ESS Unit

Dual-Mode Balcony ESS Unit

Global All-in-One Balcony ESS Market, Segmentation by Application:

Urban Apartment Balcony PV Self-Consumption

Residential Backup Power During Grid Outages

Other

Companies Profiled:

Shenzhen Hello Tech Energy Co., Ltd.

EcoFlow

Zendure

Marstek Energy

VigorPool

Growatt

Hoymiles

Ecosolex

APsystems

Hinen

Anker SOLIX

Absen Energy

AlphaESS

iYPOWER

ShenZhen Cham Battery Technology Co., Ltd.

Mentech

Baldurspower

Hamedata

Must Energy (Guangdong) Technology Co.,LTD

Guangzhou Felicity Solar Technology Co., Ltd

SolaX Power

Solakon

Key Questions Answered:

1. How big is the global All-in-One Balcony ESS market?
2. What is the demand of the global All-in-One Balcony ESS market?
3. What is the year over year growth of the global All-in-One Balcony ESS market?
4. What is the production and production value of the global All-in-One Balcony ESS market?
5. Who are the key producers in the global All-in-One Balcony ESS market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 All-in-One Balcony ESS Introduction
- 1.2 World All-in-One Balcony ESS Supply & Forecast
 - 1.2.1 World All-in-One Balcony ESS Production Value (2021 & 2025 & 2032)
 - 1.2.2 World All-in-One Balcony ESS Production (2021-2032)
 - 1.2.3 World All-in-One Balcony ESS Pricing Trends (2021-2032)
- 1.3 World All-in-One Balcony ESS Production by Region (Based on Production Site)
 - 1.3.1 World All-in-One Balcony ESS Production Value by Region (2021-2032)
 - 1.3.2 World All-in-One Balcony ESS Production by Region (2021-2032)
 - 1.3.3 World All-in-One Balcony ESS Average Price by Region (2021-2032)
 - 1.3.4 North America All-in-One Balcony ESS Production (2021-2032)
 - 1.3.5 Europe All-in-One Balcony ESS Production (2021-2032)
 - 1.3.6 China All-in-One Balcony ESS Production (2021-2032)
 - 1.3.7 Japan All-in-One Balcony ESS Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 All-in-One Balcony ESS Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 All-in-One Balcony ESS Major Market Trends

2 DEMAND SUMMARY

- 2.1 World All-in-One Balcony ESS Demand (2021-2032)
- 2.2 World All-in-One Balcony ESS Consumption by Region
 - 2.2.1 World All-in-One Balcony ESS Consumption by Region (2021-2026)
 - 2.2.2 World All-in-One Balcony ESS Consumption Forecast by Region (2027-2032)
- 2.3 United States All-in-One Balcony ESS Consumption (2021-2032)
- 2.4 China All-in-One Balcony ESS Consumption (2021-2032)
- 2.5 Europe All-in-One Balcony ESS Consumption (2021-2032)
- 2.6 Japan All-in-One Balcony ESS Consumption (2021-2032)
- 2.7 South Korea All-in-One Balcony ESS Consumption (2021-2032)
- 2.8 ASEAN All-in-One Balcony ESS Consumption (2021-2032)
- 2.9 India All-in-One Balcony ESS Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World All-in-One Balcony ESS Production Value by Manufacturer (2021-2026)

- 3.2 World All-in-One Balcony ESS Production by Manufacturer (2021-2026)
- 3.3 World All-in-One Balcony ESS Average Price by Manufacturer (2021-2026)
- 3.4 All-in-One Balcony ESS Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global All-in-One Balcony ESS Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for All-in-One Balcony ESS in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for All-in-One Balcony ESS in 2025
- 3.6 All-in-One Balcony ESS Market: Overall Company Footprint Analysis
 - 3.6.1 All-in-One Balcony ESS Market: Region Footprint
 - 3.6.2 All-in-One Balcony ESS Market: Company Product Type Footprint
 - 3.6.3 All-in-One Balcony ESS Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: All-in-One Balcony ESS Production Value Comparison
 - 4.1.1 United States VS China: All-in-One Balcony ESS Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: All-in-One Balcony ESS Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: All-in-One Balcony ESS Production Comparison
 - 4.2.1 United States VS China: All-in-One Balcony ESS Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: All-in-One Balcony ESS Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: All-in-One Balcony ESS Consumption Comparison
 - 4.3.1 United States VS China: All-in-One Balcony ESS Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: All-in-One Balcony ESS Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based All-in-One Balcony ESS Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers All-in-One Balcony ESS Production Value (2021-2026)

4.4.3 United States Based Manufacturers All-in-One Balcony ESS Production (2021-2026)

4.5 China Based All-in-One Balcony ESS Manufacturers and Market Share

4.5.1 China Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers All-in-One Balcony ESS Production Value (2021-2026)

4.5.3 China Based Manufacturers All-in-One Balcony ESS Production (2021-2026)

4.6 Rest of World Based All-in-One Balcony ESS Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers All-in-One Balcony ESS Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers All-in-One Balcony ESS Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World All-in-One Balcony ESS Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Grid-Tied Balcony ESS Unit

5.2.2 Dual-Mode Balcony ESS Unit

5.3 Market Segment by Type

5.3.1 World All-in-One Balcony ESS Production by Type (2021-2032)

5.3.2 World All-in-One Balcony ESS Production Value by Type (2021-2032)

5.3.3 World All-in-One Balcony ESS Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

6.1 World All-in-One Balcony ESS Market Size Overview by Application: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Application

6.2.1 Urban Apartment Balcony PV Self-Consumption

6.2.2 Residential Backup Power During Grid Outages

6.2.3 Other

6.3 Market Segment by Application

- 6.3.1 World All-in-One Balcony ESS Production by Application (2021-2032)
- 6.3.2 World All-in-One Balcony ESS Production Value by Application (2021-2032)
- 6.3.3 World All-in-One Balcony ESS Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 Shenzhen Hello Tech Energy Co., Ltd.

- 7.1.1 Shenzhen Hello Tech Energy Co., Ltd. Details
- 7.1.2 Shenzhen Hello Tech Energy Co., Ltd. Major Business
- 7.1.3 Shenzhen Hello Tech Energy Co., Ltd. All-in-One Balcony ESS Product and Services
- 7.1.4 Shenzhen Hello Tech Energy Co., Ltd. All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.1.5 Shenzhen Hello Tech Energy Co., Ltd. Recent Developments/Updates
- 7.1.6 Shenzhen Hello Tech Energy Co., Ltd. Competitive Strengths & Weaknesses

7.2 EcoFlow

- 7.2.1 EcoFlow Details
- 7.2.2 EcoFlow Major Business
- 7.2.3 EcoFlow All-in-One Balcony ESS Product and Services
- 7.2.4 EcoFlow All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.2.5 EcoFlow Recent Developments/Updates
- 7.2.6 EcoFlow Competitive Strengths & Weaknesses

7.3 Zendure

- 7.3.1 Zendure Details
- 7.3.2 Zendure Major Business
- 7.3.3 Zendure All-in-One Balcony ESS Product and Services
- 7.3.4 Zendure All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.3.5 Zendure Recent Developments/Updates
- 7.3.6 Zendure Competitive Strengths & Weaknesses

7.4 Marstek Energy

- 7.4.1 Marstek Energy Details
- 7.4.2 Marstek Energy Major Business
- 7.4.3 Marstek Energy All-in-One Balcony ESS Product and Services
- 7.4.4 Marstek Energy All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.4.5 Marstek Energy Recent Developments/Updates

- 7.4.6 Marstek Energy Competitive Strengths & Weaknesses
- 7.5 VigorPool
 - 7.5.1 VigorPool Details
 - 7.5.2 VigorPool Major Business
 - 7.5.3 VigorPool All-in-One Balcony ESS Product and Services
 - 7.5.4 VigorPool All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.5.5 VigorPool Recent Developments/Updates
 - 7.5.6 VigorPool Competitive Strengths & Weaknesses
- 7.6 Growatt
 - 7.6.1 Growatt Details
 - 7.6.2 Growatt Major Business
 - 7.6.3 Growatt All-in-One Balcony ESS Product and Services
 - 7.6.4 Growatt All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.6.5 Growatt Recent Developments/Updates
 - 7.6.6 Growatt Competitive Strengths & Weaknesses
- 7.7 Hoymiles
 - 7.7.1 Hoymiles Details
 - 7.7.2 Hoymiles Major Business
 - 7.7.3 Hoymiles All-in-One Balcony ESS Product and Services
 - 7.7.4 Hoymiles All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.7.5 Hoymiles Recent Developments/Updates
 - 7.7.6 Hoymiles Competitive Strengths & Weaknesses
- 7.8 Ecosolex
 - 7.8.1 Ecosolex Details
 - 7.8.2 Ecosolex Major Business
 - 7.8.3 Ecosolex All-in-One Balcony ESS Product and Services
 - 7.8.4 Ecosolex All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.8.5 Ecosolex Recent Developments/Updates
 - 7.8.6 Ecosolex Competitive Strengths & Weaknesses
- 7.9 APsystems
 - 7.9.1 APsystems Details
 - 7.9.2 APsystems Major Business
 - 7.9.3 APsystems All-in-One Balcony ESS Product and Services
 - 7.9.4 APsystems All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 7.9.5 APsystems Recent Developments/Updates
- 7.9.6 APsystems Competitive Strengths & Weaknesses
- 7.10 Hinen
 - 7.10.1 Hinen Details
 - 7.10.2 Hinen Major Business
 - 7.10.3 Hinen All-in-One Balcony ESS Product and Services
 - 7.10.4 Hinen All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.10.5 Hinen Recent Developments/Updates
 - 7.10.6 Hinen Competitive Strengths & Weaknesses
- 7.11 Anker SOLIX
 - 7.11.1 Anker SOLIX Details
 - 7.11.2 Anker SOLIX Major Business
 - 7.11.3 Anker SOLIX All-in-One Balcony ESS Product and Services
 - 7.11.4 Anker SOLIX All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.11.5 Anker SOLIX Recent Developments/Updates
 - 7.11.6 Anker SOLIX Competitive Strengths & Weaknesses
- 7.12 Absen Energy
 - 7.12.1 Absen Energy Details
 - 7.12.2 Absen Energy Major Business
 - 7.12.3 Absen Energy All-in-One Balcony ESS Product and Services
 - 7.12.4 Absen Energy All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.12.5 Absen Energy Recent Developments/Updates
 - 7.12.6 Absen Energy Competitive Strengths & Weaknesses
- 7.13 AlphaESS
 - 7.13.1 AlphaESS Details
 - 7.13.2 AlphaESS Major Business
 - 7.13.3 AlphaESS All-in-One Balcony ESS Product and Services
 - 7.13.4 AlphaESS All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.13.5 AlphaESS Recent Developments/Updates
 - 7.13.6 AlphaESS Competitive Strengths & Weaknesses
- 7.14 iYPOWER
 - 7.14.1 iYPOWER Details
 - 7.14.2 iYPOWER Major Business
 - 7.14.3 iYPOWER All-in-One Balcony ESS Product and Services
 - 7.14.4 iYPOWER All-in-One Balcony ESS Production, Price, Value, Gross Margin and

Market Share (2021-2026)

7.14.5 iYPOWER Recent Developments/Updates

7.14.6 iYPOWER Competitive Strengths & Weaknesses

7.15 ShenZhen Cham Battery Technology Co., Ltd.

7.15.1 ShenZhen Cham Battery Technology Co., Ltd. Details

7.15.2 ShenZhen Cham Battery Technology Co., Ltd. Major Business

7.15.3 ShenZhen Cham Battery Technology Co., Ltd. All-in-One Balcony ESS Product and Services

7.15.4 ShenZhen Cham Battery Technology Co., Ltd. All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.15.5 ShenZhen Cham Battery Technology Co., Ltd. Recent Developments/Updates

7.15.6 ShenZhen Cham Battery Technology Co., Ltd. Competitive Strengths & Weaknesses

7.16 Mentech

7.16.1 Mentech Details

7.16.2 Mentech Major Business

7.16.3 Mentech All-in-One Balcony ESS Product and Services

7.16.4 Mentech All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.16.5 Mentech Recent Developments/Updates

7.16.6 Mentech Competitive Strengths & Weaknesses

7.17 Baldurspower

7.17.1 Baldurspower Details

7.17.2 Baldurspower Major Business

7.17.3 Baldurspower All-in-One Balcony ESS Product and Services

7.17.4 Baldurspower All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.17.5 Baldurspower Recent Developments/Updates

7.17.6 Baldurspower Competitive Strengths & Weaknesses

7.18 Hamedata

7.18.1 Hamedata Details

7.18.2 Hamedata Major Business

7.18.3 Hamedata All-in-One Balcony ESS Product and Services

7.18.4 Hamedata All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.18.5 Hamedata Recent Developments/Updates

7.18.6 Hamedata Competitive Strengths & Weaknesses

7.19 Must Energy (Guangdong) Technology Co.,LTD

7.19.1 Must Energy (Guangdong) Technology Co.,LTD Details

- 7.19.2 Must Energy (Guangdong) Technology Co.,LTD Major Business
- 7.19.3 Must Energy (Guangdong) Technology Co.,LTD All-in-One Balcony ESS Product and Services
- 7.19.4 Must Energy (Guangdong) Technology Co.,LTD All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.19.5 Must Energy (Guangdong) Technology Co.,LTD Recent Developments/Updates
- 7.19.6 Must Energy (Guangdong) Technology Co.,LTD Competitive Strengths & Weaknesses
- 7.20 Guangzhou Felicity Solar Technology Co., Ltd
 - 7.20.1 Guangzhou Felicity Solar Technology Co., Ltd Details
 - 7.20.2 Guangzhou Felicity Solar Technology Co., Ltd Major Business
 - 7.20.3 Guangzhou Felicity Solar Technology Co., Ltd All-in-One Balcony ESS Product and Services
 - 7.20.4 Guangzhou Felicity Solar Technology Co., Ltd All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.20.5 Guangzhou Felicity Solar Technology Co., Ltd Recent Developments/Updates
 - 7.20.6 Guangzhou Felicity Solar Technology Co., Ltd Competitive Strengths & Weaknesses
- 7.21 SolaX Power
 - 7.21.1 SolaX Power Details
 - 7.21.2 SolaX Power Major Business
 - 7.21.3 SolaX Power All-in-One Balcony ESS Product and Services
 - 7.21.4 SolaX Power All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.21.5 SolaX Power Recent Developments/Updates
 - 7.21.6 SolaX Power Competitive Strengths & Weaknesses
- 7.22 Solakon
 - 7.22.1 Solakon Details
 - 7.22.2 Solakon Major Business
 - 7.22.3 Solakon All-in-One Balcony ESS Product and Services
 - 7.22.4 Solakon All-in-One Balcony ESS Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.22.5 Solakon Recent Developments/Updates
 - 7.22.6 Solakon Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 All-in-One Balcony ESS Industry Chain
- 8.2 All-in-One Balcony ESS Upstream Analysis

- 8.2.1 All-in-One Balcony ESS Core Raw Materials
- 8.2.2 Main Manufacturers of All-in-One Balcony ESS Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 All-in-One Balcony ESS Production Mode
- 8.6 All-in-One Balcony ESS Procurement Model
- 8.7 All-in-One Balcony ESS Industry Sales Model and Sales Channels
 - 8.7.1 All-in-One Balcony ESS Sales Model
 - 8.7.2 All-in-One Balcony ESS Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World All-in-One Balcony ESS Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World All-in-One Balcony ESS Production Value by Region (2021-2026) & (USD Million)

Table 3. World All-in-One Balcony ESS Production Value by Region (2027-2032) & (USD Million)

Table 4. World All-in-One Balcony ESS Production Value Market Share by Region (2021-2026)

Table 5. World All-in-One Balcony ESS Production Value Market Share by Region (2027-2032)

Table 6. World All-in-One Balcony ESS Production by Region (2021-2026) & (K Units)

Table 7. World All-in-One Balcony ESS Production by Region (2027-2032) & (K Units)

Table 8. World All-in-One Balcony ESS Production Market Share by Region (2021-2026)

Table 9. World All-in-One Balcony ESS Production Market Share by Region (2027-2032)

Table 10. World All-in-One Balcony ESS Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World All-in-One Balcony ESS Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. All-in-One Balcony ESS Major Market Trends

Table 13. World All-in-One Balcony ESS Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World All-in-One Balcony ESS Consumption by Region (2021-2026) & (K Units)

Table 15. World All-in-One Balcony ESS Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World All-in-One Balcony ESS Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key All-in-One Balcony ESS Producers in 2025

Table 18. World All-in-One Balcony ESS Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key All-in-One Balcony ESS Producers in 2025

Table 20. World All-in-One Balcony ESS Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global All-in-One Balcony ESS Company Evaluation Quadrant

Table 22. World All-in-One Balcony ESS Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and All-in-One Balcony ESS Production Site of Key Manufacturer

Table 24. All-in-One Balcony ESS Market: Company Product Type Footprint

Table 25. All-in-One Balcony ESS Market: Company Product Application Footprint

Table 26. All-in-One Balcony ESS Competitive Factors

Table 27. All-in-One Balcony ESS New Entrant and Capacity Expansion Plans

Table 28. All-in-One Balcony ESS Mergers & Acquisitions Activity

Table 29. United States VS China All-in-One Balcony ESS Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China All-in-One Balcony ESS Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China All-in-One Balcony ESS Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers All-in-One Balcony ESS Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers All-in-One Balcony ESS Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers All-in-One Balcony ESS Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers All-in-One Balcony ESS Production Market Share (2021-2026)

Table 37. China Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers All-in-One Balcony ESS Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers All-in-One Balcony ESS Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers All-in-One Balcony ESS Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers All-in-One Balcony ESS Production Market Share (2021-2026)

Table 42. Rest of World Based All-in-One Balcony ESS Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers All-in-One Balcony ESS Production

Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers All-in-One Balcony ESS Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers All-in-One Balcony ESS Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers All-in-One Balcony ESS Production Market Share (2021-2026)

Table 47. World All-in-One Balcony ESS Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World All-in-One Balcony ESS Production by Type (2021-2026) & (K Units)

Table 49. World All-in-One Balcony ESS Production by Type (2027-2032) & (K Units)

Table 50. World All-in-One Balcony ESS Production Value by Type (2021-2026) & (USD Million)

Table 51. World All-in-One Balcony ESS Production Value by Type (2027-2032) & (USD Million)

Table 52. World All-in-One Balcony ESS Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World All-in-One Balcony ESS Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World All-in-One Balcony ESS Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World All-in-One Balcony ESS Production by Application (2021-2026) & (K Units)

Table 56. World All-in-One Balcony ESS Production by Application (2027-2032) & (K Units)

Table 57. World All-in-One Balcony ESS Production Value by Application (2021-2026) & (USD Million)

Table 58. World All-in-One Balcony ESS Production Value by Application (2027-2032) & (USD Million)

Table 59. World All-in-One Balcony ESS Average Price by Application (2021-2026) & (US\$/Unit)

Table 60. World All-in-One Balcony ESS Average Price by Application (2027-2032) & (US\$/Unit)

Table 61. Shenzhen Hello Tech Energy Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 62. Shenzhen Hello Tech Energy Co., Ltd. Major Business

Table 63. Shenzhen Hello Tech Energy Co., Ltd. All-in-One Balcony ESS Product and Services

Table 64. Shenzhen Hello Tech Energy Co., Ltd. All-in-One Balcony ESS Production (K

Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Shenzhen Hello Tech Energy Co., Ltd. Recent Developments/Updates

Table 66. Shenzhen Hello Tech Energy Co., Ltd. Competitive Strengths & Weaknesses

Table 67. EcoFlow Basic Information, Manufacturing Base and Competitors

Table 68. EcoFlow Major Business

Table 69. EcoFlow All-in-One Balcony ESS Product and Services

Table 70. EcoFlow All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. EcoFlow Recent Developments/Updates

Table 72. EcoFlow Competitive Strengths & Weaknesses

Table 73. Zendure Basic Information, Manufacturing Base and Competitors

Table 74. Zendure Major Business

Table 75. Zendure All-in-One Balcony ESS Product and Services

Table 76. Zendure All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Zendure Recent Developments/Updates

Table 78. Zendure Competitive Strengths & Weaknesses

Table 79. Marstek Energy Basic Information, Manufacturing Base and Competitors

Table 80. Marstek Energy Major Business

Table 81. Marstek Energy All-in-One Balcony ESS Product and Services

Table 82. Marstek Energy All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Marstek Energy Recent Developments/Updates

Table 84. Marstek Energy Competitive Strengths & Weaknesses

Table 85. VigorPool Basic Information, Manufacturing Base and Competitors

Table 86. VigorPool Major Business

Table 87. VigorPool All-in-One Balcony ESS Product and Services

Table 88. VigorPool All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. VigorPool Recent Developments/Updates

Table 90. VigorPool Competitive Strengths & Weaknesses

Table 91. Growatt Basic Information, Manufacturing Base and Competitors

Table 92. Growatt Major Business

Table 93. Growatt All-in-One Balcony ESS Product and Services

Table 94. Growatt All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Growatt Recent Developments/Updates

- Table 96. Growatt Competitive Strengths & Weaknesses
- Table 97. Hoymiles Basic Information, Manufacturing Base and Competitors
- Table 98. Hoymiles Major Business
- Table 99. Hoymiles All-in-One Balcony ESS Product and Services
- Table 100. Hoymiles All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Hoymiles Recent Developments/Updates
- Table 102. Hoymiles Competitive Strengths & Weaknesses
- Table 103. Ecosolex Basic Information, Manufacturing Base and Competitors
- Table 104. Ecosolex Major Business
- Table 105. Ecosolex All-in-One Balcony ESS Product and Services
- Table 106. Ecosolex All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 107. Ecosolex Recent Developments/Updates
- Table 108. Ecosolex Competitive Strengths & Weaknesses
- Table 109. APsystems Basic Information, Manufacturing Base and Competitors
- Table 110. APsystems Major Business
- Table 111. APsystems All-in-One Balcony ESS Product and Services
- Table 112. APsystems All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 113. APsystems Recent Developments/Updates
- Table 114. APsystems Competitive Strengths & Weaknesses
- Table 115. Hinen Basic Information, Manufacturing Base and Competitors
- Table 116. Hinen Major Business
- Table 117. Hinen All-in-One Balcony ESS Product and Services
- Table 118. Hinen All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. Hinen Recent Developments/Updates
- Table 120. Hinen Competitive Strengths & Weaknesses
- Table 121. Anker SOLIX Basic Information, Manufacturing Base and Competitors
- Table 122. Anker SOLIX Major Business
- Table 123. Anker SOLIX All-in-One Balcony ESS Product and Services
- Table 124. Anker SOLIX All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. Anker SOLIX Recent Developments/Updates
- Table 126. Anker SOLIX Competitive Strengths & Weaknesses
- Table 127. Absen Energy Basic Information, Manufacturing Base and Competitors
- Table 128. Absen Energy Major Business
- Table 129. Absen Energy All-in-One Balcony ESS Product and Services

- Table 130. Absen Energy All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 131. Absen Energy Recent Developments/Updates
- Table 132. Absen Energy Competitive Strengths & Weaknesses
- Table 133. AlphaESS Basic Information, Manufacturing Base and Competitors
- Table 134. AlphaESS Major Business
- Table 135. AlphaESS All-in-One Balcony ESS Product and Services
- Table 136. AlphaESS All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 137. AlphaESS Recent Developments/Updates
- Table 138. AlphaESS Competitive Strengths & Weaknesses
- Table 139. iYPOWER Basic Information, Manufacturing Base and Competitors
- Table 140. iYPOWER Major Business
- Table 141. iYPOWER All-in-One Balcony ESS Product and Services
- Table 142. iYPOWER All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 143. iYPOWER Recent Developments/Updates
- Table 144. iYPOWER Competitive Strengths & Weaknesses
- Table 145. ShenZhen Cham Battery Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
- Table 146. ShenZhen Cham Battery Technology Co., Ltd. Major Business
- Table 147. ShenZhen Cham Battery Technology Co., Ltd. All-in-One Balcony ESS Product and Services
- Table 148. ShenZhen Cham Battery Technology Co., Ltd. All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 149. ShenZhen Cham Battery Technology Co., Ltd. Recent Developments/Updates
- Table 150. ShenZhen Cham Battery Technology Co., Ltd. Competitive Strengths & Weaknesses
- Table 151. Mentech Basic Information, Manufacturing Base and Competitors
- Table 152. Mentech Major Business
- Table 153. Mentech All-in-One Balcony ESS Product and Services
- Table 154. Mentech All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 155. Mentech Recent Developments/Updates
- Table 156. Mentech Competitive Strengths & Weaknesses
- Table 157. Baldurspower Basic Information, Manufacturing Base and Competitors

Table 158. Baldurspower Major Business

Table 159. Baldurspower All-in-One Balcony ESS Product and Services

Table 160. Baldurspower All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 161. Baldurspower Recent Developments/Updates

Table 162. Baldurspower Competitive Strengths & Weaknesses

Table 163. Hamedata Basic Information, Manufacturing Base and Competitors

Table 164. Hamedata Major Business

Table 165. Hamedata All-in-One Balcony ESS Product and Services

Table 166. Hamedata All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 167. Hamedata Recent Developments/Updates

Table 168. Hamedata Competitive Strengths & Weaknesses

Table 169. Must Energy (Guangdong) Technology Co.,LTD Basic Information, Manufacturing Base and Competitors

Table 170. Must Energy (Guangdong) Technology Co.,LTD Major Business

Table 171. Must Energy (Guangdong) Technology Co.,LTD All-in-One Balcony ESS Product and Services

Table 172. Must Energy (Guangdong) Technology Co.,LTD All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 173. Must Energy (Guangdong) Technology Co.,LTD Recent Developments/Updates

Table 174. Must Energy (Guangdong) Technology Co.,LTD Competitive Strengths & Weaknesses

Table 175. Guangzhou Felicity Solar Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 176. Guangzhou Felicity Solar Technology Co., Ltd Major Business

Table 177. Guangzhou Felicity Solar Technology Co., Ltd All-in-One Balcony ESS Product and Services

Table 178. Guangzhou Felicity Solar Technology Co., Ltd All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 179. Guangzhou Felicity Solar Technology Co., Ltd Recent Developments/Updates

Table 180. Guangzhou Felicity Solar Technology Co., Ltd Competitive Strengths & Weaknesses

Table 181. SolaX Power Basic Information, Manufacturing Base and Competitors

Table 182. SolaX Power Major Business

Table 183. SolaX Power All-in-One Balcony ESS Product and Services

Table 184. SolaX Power All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 185. SolaX Power Recent Developments/Updates

Table 186. SolaX Power Competitive Strengths & Weaknesses

Table 187. Solakon Basic Information, Manufacturing Base and Competitors

Table 188. Solakon Major Business

Table 189. Solakon All-in-One Balcony ESS Product and Services

Table 190. Solakon All-in-One Balcony ESS Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 191. Solakon Recent Developments/Updates

Table 192. Solakon Competitive Strengths & Weaknesses

Table 193. Global Key Players of All-in-One Balcony ESS Upstream (Raw Materials)

Table 194. Global All-in-One Balcony ESS Typical Customers

Table 195. All-in-One Balcony ESS Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. All-in-One Balcony ESS Picture

Figure 2. World All-in-One Balcony ESS Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World All-in-One Balcony ESS Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World All-in-One Balcony ESS Production (2021-2032) & (K Units)

Figure 5. World All-in-One Balcony ESS Average Price (2021-2032) & (US\$/Unit)

Figure 6. World All-in-One Balcony ESS Production Value Market Share by Region (2021-2032)

Figure 7. World All-in-One Balcony ESS Production Market Share by Region (2021-2032)

Figure 8. North America All-in-One Balcony ESS Production (2021-2032) & (K Units)

Figure 9. Europe All-in-One Balcony ESS Production (2021-2032) & (K Units)

Figure 10. China All-in-One Balcony ESS Production (2021-2032) & (K Units)

Figure 11. Japan All-in-One Balcony ESS Production (2021-2032) & (K Units)

Figure 12. All-in-One Balcony ESS Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 15. World All-in-One Balcony ESS Consumption Market Share by Region (2021-2032)

Figure 16. United States All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 17. China All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 18. Europe All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 19. Japan All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 20. South Korea All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 21. ASEAN All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 22. India All-in-One Balcony ESS Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of All-in-One Balcony ESS by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for All-in-One Balcony ESS Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for All-in-One Balcony ESS Markets in 2025

Figure 26. United States VS China: All-in-One Balcony ESS Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: All-in-One Balcony ESS Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: All-in-One Balcony ESS Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers All-in-One Balcony ESS Production Market Share 2025

Figure 30. China Based Manufacturers All-in-One Balcony ESS Production Market Share 2025

Figure 31. Rest of World Based Manufacturers All-in-One Balcony ESS Production Market Share 2025

Figure 32. World All-in-One Balcony ESS Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World All-in-One Balcony ESS Production Value Market Share by Type in 2025

Figure 34. Grid-Tied Balcony ESS Unit

Figure 35. Dual-Mode Balcony ESS Unit

Figure 36. World All-in-One Balcony ESS Production Market Share by Type (2021-2032)

Figure 37. World All-in-One Balcony ESS Production Value Market Share by Type (2021-2032)

Figure 38. World All-in-One Balcony ESS Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World All-in-One Balcony ESS Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 40. World All-in-One Balcony ESS Production Value Market Share by Application in 2025

Figure 41. Urban Apartment Balcony PV Self-Consumption

Figure 42. Residential Backup Power During Grid Outages

Figure 43. Other

Figure 44. World All-in-One Balcony ESS Production Market Share by Application (2021-2032)

Figure 45. World All-in-One Balcony ESS Production Value Market Share by Application (2021-2032)

Figure 46. World All-in-One Balcony ESS Average Price by Application (2021-2032) & (US\$/Unit)

Figure 47. All-in-One Balcony ESS Industry Chain

Figure 48. All-in-One Balcony ESS Procurement Model

Figure 49. All-in-One Balcony ESS Sales Model

Figure 50. All-in-One Balcony ESS Sales Channels, Direct Sales, and Distribution

Figure 51. Methodology

Figure 52. Research Process and Data Source

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