

Global Solar Charging Seat Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar Charging Seat market size is expected to reach \$ 272 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

The solar charging seat is a new type of smart outdoor public seating that integrates solar power generation, energy storage management, and mobile device charging capabilities. It primarily utilizes solar photovoltaic modules installed on the seat's top or structural surfaces to convert solar energy into electricity, while employing built-in batteries, power control modules, and charging ports to manage energy storage and output. Typically constructed from weather-resistant metals, wood-plastic composites, or engineering plastics to withstand long-term outdoor use, these seats incorporate features such as USB ports and wireless charging modules to provide convenient charging services for smartphones, tablets, and other portable electronic devices. Advanced models may further integrate functions like smart lighting, Wi-Fi hotspots, environmental monitoring, and equipment status management, thereby enhancing digital service capabilities in public spaces. Widely deployed in parks, city squares, transportation hubs, commercial districts, campuses, tourist attractions, and other outdoor public areas, these seats represent a key component of smart city development, green infrastructure, and sustainable public furniture. Driven by advancements in new energy, energy storage, and smart hardware technologies, these products are evolving from simple charging units into multifunctional smart outdoor service terminals; this evolution not only improves the user experience but also offers new solutions for enhancing energy efficiency in public spaces.

Key Findings

Solar Charging Seat combines renewable energy and public seating

Charging function drives the primary market demand

Wireless charging expands user convenience capabilities

Public facilities represent major application scenarios

Smart outdoor furniture increases product value

Europe and North America show strong market potential

Market Trends

The Solar Charging Seat industry is gradually evolving from basic solar-powered seating toward multifunctional outdoor smart furniture solutions. Product development is increasingly focused on improving solar energy conversion efficiency, battery storage capacity, charging speed and outdoor durability. Customer requirements are shifting from simple seating functions toward integrated public service facilities that combine renewable energy utilization with user convenience. The integration of wireless charging technology, intelligent power management and sustainable furniture design is becoming an important direction, supporting broader adoption in smart city infrastructure and green public space development.

Market Dynamics

Drivers

The growth of Solar Charging Seat is mainly driven by increasing demand for sustainable public facilities, renewable energy applications and smart city development. Municipalities, commercial property operators and public space managers are seeking outdoor furniture solutions that provide additional services while reducing dependence on traditional power infrastructure. Improvements in photovoltaic technology, battery systems and charging components are further enhancing product reliability and expanding application possibilities.

Restraints

The Solar Charging Seat market faces limitations from relatively high manufacturing costs, outdoor environmental requirements and the complexity of integrating solar, storage and charging systems. Compared with conventional outdoor seating, solar charging products require additional electronic components and maintenance considerations. Weather conditions, installation requirements and differences in public infrastructure budgets may also influence market penetration in certain regions.

Opportunities

Future opportunities for Solar Charging Seat are emerging from the expansion of green urban infrastructure, outdoor device charging demand and sustainable public furniture projects. Products combining wireless charging, higher energy storage capacity and intelligent monitoring functions may create additional application value. The increasing adoption of smart communities, tourism facilities and commercial outdoor spaces provides new opportunities for market expansion.

Challenges

The industry faces challenges related to product standardization, cost optimization and large-scale commercial deployment. Different public environments require customized designs, while manufacturers need to balance charging performance, solar efficiency, structural durability and lifecycle costs. Establishing broader user acceptance and integrating products into public infrastructure planning remain important challenges for long-term development.

Industry Chain Analysis

The Solar Charging Seat industry chain consists of upstream component suppliers, midstream manufacturers and downstream application users. The upstream segment provides photovoltaic modules, lithium battery systems, charging modules, electronic control components, metal structures and weather-resistant materials. The midstream segment focuses on product design, solar energy integration, manufacturing, customization and system testing. The downstream segment mainly includes public parks, transportation facilities, commercial outdoor spaces, campuses and other shared environments.

The value creation of Solar Charging Seat comes from combining renewable energy generation with outdoor furniture functionality. Compared with traditional seating products, solar charging seats provide additional value through independent power supply and user charging services. Product cost structures are mainly influenced by photovoltaic components, battery capacity, charging technology, structural materials, manufacturing processes and installation requirements.

Segment Insights

Solar Charging Seat can be segmented mainly by charging technology, including USB Solar Charging Seat and Wireless Solar Charging Seat. USB Solar Charging Seat currently represents a widely adopted configuration due to its mature technology, relatively simple structure and compatibility with various mobile devices. Wireless Solar Charging Seat represents a higher-value development direction by improving user convenience and reducing dependence on physical charging interfaces.

From the application perspective, Park and Recreation Furniture represents an important market segment due to continuous demand for sustainable public amenities. Transportation Area Furniture and Commercial Outdoor Furniture provide additional opportunities as operators seek multifunctional outdoor facilities. Future product differentiation will increasingly depend on charging efficiency, battery performance, intelligent control capability and integration with smart infrastructure.

Downstream Market Opportunities

The downstream market for Solar Charging Seat is mainly concentrated in public and commercial outdoor environments requiring convenient charging services and sustainable infrastructure solutions. Parks, recreation facilities, transportation areas and commercial spaces are key application scenarios where users increasingly expect additional digital services during outdoor activities. Solar Charging Seat provides opportunities for municipalities, property operators and facility managers to improve public service quality while supporting renewable energy utilization.

Regional Insights

The Solar Charging Seat market shows regional differences based on renewable

energy adoption, smart infrastructure development and public facility investment levels. Europe represents an important market due to strong sustainability awareness and demand for environmentally friendly urban facilities. North America also demonstrates significant potential driven by smart city projects, commercial outdoor applications and public charging requirements.

Asia-Pacific is expected to provide additional growth opportunities as urban modernization, renewable energy integration and smart public infrastructure development accelerate. Regional market development depends on government planning, climate conditions, infrastructure investment and consumer acceptance of sustainable outdoor furniture solutions.

Competitive Landscape Analysis

The Solar Charging Seat market includes specialized solar furniture manufacturers, smart outdoor furniture providers and renewable energy solution companies. Competition primarily focuses on solar system integration capability, charging technology, product durability, design flexibility and project implementation experience. Companies such as InfraMarks, Sunbolt, EnerFusion Inc, EnGoPlanet, Strawberry Energy, Metsolar, SEEDiA, The Solar Range, Lumossolar, Nakamura Manufacturing, Showa Seisen, iBench, Include, Superior Amenities, Bluebolt Outdoor, Foshan Nanhai Guose Intelligent Facilities and Weiyin Intelligent Technology have developed solutions related to solar-powered charging seating and outdoor smart furniture applications. The market remains relatively specialized, with future competition expected to focus on improving energy efficiency, expanding charging functions and integrating Solar Charging Seat products into broader sustainable urban infrastructure systems.

Report Scope

This report studies the global Solar Charging Seat production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar Charging Seat 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 Solar Charging Seat that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar Charging Seat total production and demand, 2021-2032, (K Units)

Global Solar Charging Seat total production value, 2021-2032, (USD Million)

Global Solar Charging Seat production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solar Charging Seat consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solar Charging Seat domestic production, consumption, key domestic manufacturers and share

Global Solar Charging Seat production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solar Charging Seat production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solar Charging Seat production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solar Charging Seat 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 Sunbolt, EnerFusion Inc, EnGoPlanet, Strawberry Energy, SEEDiA, The Solar Range, Lumossolar, Hanchuk Tech, Nakamura Seisakusho, iBench, 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 Solar Charging Seat 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 Solar Charging Seat Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Solar Charging Seat Market, Segmentation by Type:

USB Solar Charging Seat

Wireless Solar Charging Seat

Global Solar Charging Seat Market, Segmentation by Power:

Low Power (<50 W)

Medium Power (50–150 W)

High Power (>150 W)

Global Solar Charging Seat Market, Segmentation by Smart Function:

Basic Solar Charging Seat

Smart Solar Charging Seat

Connected Solar Charging Seat

Global Solar Charging Seat Market, Segmentation by Application:

Park and Leisure Facilities

Smart City Public Facilities

Commercial Streetscape Furniture

Others

Companies Profiled:

Sunbolt

EnerFusion Inc

EnGoPlanet

Strawberry Energy

SEEDiA

The Solar Range

Lumossolar

Hanchuk Tech

Nakamura Seisakusho

iBench

Include

Superior Amenities

Bluebolt Outdoor

Foshan Nanhai Guose Intelligent Facilities

Weiyin Intelligent Technology

Key Questions Answered:

1. How big is the global Solar Charging Seat market?
2. What is the demand of the global Solar Charging Seat market?
3. What is the year over year growth of the global Solar Charging Seat market?
4. What is the production and production value of the global Solar Charging Seat market?
5. Who are the key producers in the global Solar Charging Seat market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Solar Charging Seat Production Value by Manufacturer (2021-2026)

- 3.2 World Solar Charging Seat Production by Manufacturer (2021-2026)
- 3.3 World Solar Charging Seat Average Price by Manufacturer (2021-2026)
- 3.4 Solar Charging Seat Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Solar Charging Seat Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Solar Charging Seat in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Solar Charging Seat in 2025
- 3.6 Solar Charging Seat Market: Overall Company Footprint Analysis
 - 3.6.1 Solar Charging Seat Market: Region Footprint
 - 3.6.2 Solar Charging Seat Market: Company Product Type Footprint
 - 3.6.3 Solar Charging Seat 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: Solar Charging Seat Production Value Comparison
 - 4.1.1 United States VS China: Solar Charging Seat Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Solar Charging Seat Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Solar Charging Seat Production Comparison
 - 4.2.1 United States VS China: Solar Charging Seat Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Solar Charging Seat Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Solar Charging Seat Consumption Comparison
 - 4.3.1 United States VS China: Solar Charging Seat Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Solar Charging Seat Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Solar Charging Seat Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Solar Charging Seat Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Solar Charging Seat Production Value (2021-2026)

4.4.3 United States Based Manufacturers Solar Charging Seat Production (2021-2026)

4.5 China Based Solar Charging Seat Manufacturers and Market Share

4.5.1 China Based Solar Charging Seat Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Solar Charging Seat Production Value (2021-2026)

4.5.3 China Based Manufacturers Solar Charging Seat Production (2021-2026)

4.6 Rest of World Based Solar Charging Seat Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Solar Charging Seat Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Solar Charging Seat Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Solar Charging Seat Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Solar Charging Seat Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 USB Solar Charging Seat

5.2.2 Wireless Solar Charging Seat

5.3 Market Segment by Type

5.3.1 World Solar Charging Seat Production by Type (2021-2032)

5.3.2 World Solar Charging Seat Production Value by Type (2021-2032)

5.3.3 World Solar Charging Seat Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY POWER

6.1 World Solar Charging Seat Market Size Overview by Power: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Power

6.2.1 Low Power (?50 W)

6.2.2 Medium Power (50–150 W)

6.2.3 High Power (>150 W)

6.3 Market Segment by Power

6.3.1 World Solar Charging Seat Production by Power (2021-2032)

6.3.2 World Solar Charging Seat Production Value by Power (2021-2032)

6.3.3 World Solar Charging Seat Average Price by Power (2021-2032)

7 MARKET ANALYSIS BY SMART FUNCTION

7.1 World Solar Charging Seat Market Size Overview by Smart Function: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Smart Function

7.2.1 Basic Solar Charging Seat

7.2.2 Smart Solar Charging Seat

7.2.3 Connected Solar Charging Seat

7.3 Market Segment by Smart Function

7.3.1 World Solar Charging Seat Production by Smart Function (2021-2032)

7.3.2 World Solar Charging Seat Production Value by Smart Function (2021-2032)

7.3.3 World Solar Charging Seat Average Price by Smart Function (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Solar Charging Seat Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Park and Leisure Facilities

8.2.2 Smart City Public Facilities

8.2.3 Commercial Streetscape Furniture

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Solar Charging Seat Production by Application (2021-2032)

8.3.2 World Solar Charging Seat Production Value by Application (2021-2032)

8.3.3 World Solar Charging Seat Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Sunbolt

9.1.1 Sunbolt Details

9.1.2 Sunbolt Major Business

9.1.3 Sunbolt Solar Charging Seat Product and Services

9.1.4 Sunbolt Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Sunbolt Recent Developments/Updates

9.1.6 Sunbolt Competitive Strengths & Weaknesses

9.2 EnerFusion Inc

- 9.2.1 EnerFusion Inc Details
- 9.2.2 EnerFusion Inc Major Business
- 9.2.3 EnerFusion Inc Solar Charging Seat Product and Services
- 9.2.4 EnerFusion Inc Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 EnerFusion Inc Recent Developments/Updates
- 9.2.6 EnerFusion Inc Competitive Strengths & Weaknesses
- 9.3 EnGoPlanet
 - 9.3.1 EnGoPlanet Details
 - 9.3.2 EnGoPlanet Major Business
 - 9.3.3 EnGoPlanet Solar Charging Seat Product and Services
 - 9.3.4 EnGoPlanet Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 EnGoPlanet Recent Developments/Updates
 - 9.3.6 EnGoPlanet Competitive Strengths & Weaknesses
- 9.4 Strawberry Energy
 - 9.4.1 Strawberry Energy Details
 - 9.4.2 Strawberry Energy Major Business
 - 9.4.3 Strawberry Energy Solar Charging Seat Product and Services
 - 9.4.4 Strawberry Energy Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Strawberry Energy Recent Developments/Updates
 - 9.4.6 Strawberry Energy Competitive Strengths & Weaknesses
- 9.5 SEEDiA
 - 9.5.1 SEEDiA Details
 - 9.5.2 SEEDiA Major Business
 - 9.5.3 SEEDiA Solar Charging Seat Product and Services
 - 9.5.4 SEEDiA Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 SEEDiA Recent Developments/Updates
 - 9.5.6 SEEDiA Competitive Strengths & Weaknesses
- 9.6 The Solar Range
 - 9.6.1 The Solar Range Details
 - 9.6.2 The Solar Range Major Business
 - 9.6.3 The Solar Range Solar Charging Seat Product and Services
 - 9.6.4 The Solar Range Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 The Solar Range Recent Developments/Updates
 - 9.6.6 The Solar Range Competitive Strengths & Weaknesses

9.7 Lumossolar

9.7.1 Lumossolar Details

9.7.2 Lumossolar Major Business

9.7.3 Lumossolar Solar Charging Seat Product and Services

9.7.4 Lumossolar Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Lumossolar Recent Developments/Updates

9.7.6 Lumossolar Competitive Strengths & Weaknesses

9.8 Hanchuk Tech

9.8.1 Hanchuk Tech Details

9.8.2 Hanchuk Tech Major Business

9.8.3 Hanchuk Tech Solar Charging Seat Product and Services

9.8.4 Hanchuk Tech Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Hanchuk Tech Recent Developments/Updates

9.8.6 Hanchuk Tech Competitive Strengths & Weaknesses

9.9 Nakamura Seisakusho

9.9.1 Nakamura Seisakusho Details

9.9.2 Nakamura Seisakusho Major Business

9.9.3 Nakamura Seisakusho Solar Charging Seat Product and Services

9.9.4 Nakamura Seisakusho Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Nakamura Seisakusho Recent Developments/Updates

9.9.6 Nakamura Seisakusho Competitive Strengths & Weaknesses

9.10 iBench

9.10.1 iBench Details

9.10.2 iBench Major Business

9.10.3 iBench Solar Charging Seat Product and Services

9.10.4 iBench Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 iBench Recent Developments/Updates

9.10.6 iBench Competitive Strengths & Weaknesses

9.11 Include

9.11.1 Include Details

9.11.2 Include Major Business

9.11.3 Include Solar Charging Seat Product and Services

9.11.4 Include Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Include Recent Developments/Updates

- 9.11.6 Include Competitive Strengths & Weaknesses
- 9.12 Superior Amenities
 - 9.12.1 Superior Amenities Details
 - 9.12.2 Superior Amenities Major Business
 - 9.12.3 Superior Amenities Solar Charging Seat Product and Services
 - 9.12.4 Superior Amenities Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Superior Amenities Recent Developments/Updates
 - 9.12.6 Superior Amenities Competitive Strengths & Weaknesses
- 9.13 Bluebolt Outdoor
 - 9.13.1 Bluebolt Outdoor Details
 - 9.13.2 Bluebolt Outdoor Major Business
 - 9.13.3 Bluebolt Outdoor Solar Charging Seat Product and Services
 - 9.13.4 Bluebolt Outdoor Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Bluebolt Outdoor Recent Developments/Updates
 - 9.13.6 Bluebolt Outdoor Competitive Strengths & Weaknesses
- 9.14 Foshan Nanhai Guose Intelligent Facilities
 - 9.14.1 Foshan Nanhai Guose Intelligent Facilities Details
 - 9.14.2 Foshan Nanhai Guose Intelligent Facilities Major Business
 - 9.14.3 Foshan Nanhai Guose Intelligent Facilities Solar Charging Seat Product and Services
 - 9.14.4 Foshan Nanhai Guose Intelligent Facilities Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Foshan Nanhai Guose Intelligent Facilities Recent Developments/Updates
 - 9.14.6 Foshan Nanhai Guose Intelligent Facilities Competitive Strengths & Weaknesses
- 9.15 Weiyin Intelligent Technology
 - 9.15.1 Weiyin Intelligent Technology Details
 - 9.15.2 Weiyin Intelligent Technology Major Business
 - 9.15.3 Weiyin Intelligent Technology Solar Charging Seat Product and Services
 - 9.15.4 Weiyin Intelligent Technology Solar Charging Seat Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Weiyin Intelligent Technology Recent Developments/Updates
 - 9.15.6 Weiyin Intelligent Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Solar Charging Seat Industry Chain

10.2 Solar Charging Seat Upstream Analysis

10.2.1 Solar Charging Seat Core Raw Materials

10.2.2 Main Manufacturers of Solar Charging Seat Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Solar Charging Seat Production Mode

10.6 Solar Charging Seat Procurement Model

10.7 Solar Charging Seat Industry Sales Model and Sales Channels

10.7.1 Solar Charging Seat Sales Model

10.7.2 Solar Charging Seat Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Solar Charging Seat Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Solar Charging Seat Production Value by Region (2021-2026) & (USD Million)

Table 3. World Solar Charging Seat Production Value by Region (2027-2032) & (USD Million)

Table 4. World Solar Charging Seat Production Value Market Share by Region (2021-2026)

Table 5. World Solar Charging Seat Production Value Market Share by Region (2027-2032)

Table 6. World Solar Charging Seat Production by Region (2021-2026) & (K Units)

Table 7. World Solar Charging Seat Production by Region (2027-2032) & (K Units)

Table 8. World Solar Charging Seat Production Market Share by Region (2021-2026)

Table 9. World Solar Charging Seat Production Market Share by Region (2027-2032)

Table 10. World Solar Charging Seat Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Solar Charging Seat Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Solar Charging Seat Major Market Trends

Table 13. World Solar Charging Seat Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Solar Charging Seat Consumption by Region (2021-2026) & (K Units)

Table 15. World Solar Charging Seat Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Solar Charging Seat Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Solar Charging Seat Producers in 2025

Table 18. World Solar Charging Seat Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Solar Charging Seat Producers in 2025

Table 20. World Solar Charging Seat Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Solar Charging Seat Company Evaluation Quadrant

Table 22. World Solar Charging Seat Industry Rank of Major Manufacturers, Based on

Production Value in 2025

Table 23. Head Office and Solar Charging Seat Production Site of Key Manufacturer

Table 24. Solar Charging Seat Market: Company Product Type Footprint

Table 25. Solar Charging Seat Market: Company Product Application Footprint

Table 26. Solar Charging Seat Competitive Factors

Table 27. Solar Charging Seat New Entrant and Capacity Expansion Plans

Table 28. Solar Charging Seat Mergers & Acquisitions Activity

Table 29. United States VS China Solar Charging Seat Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Solar Charging Seat Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Solar Charging Seat Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Solar Charging Seat Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Solar Charging Seat Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Solar Charging Seat Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Solar Charging Seat Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Solar Charging Seat Production Market Share (2021-2026)

Table 37. China Based Solar Charging Seat Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Solar Charging Seat Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Solar Charging Seat Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Solar Charging Seat Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Solar Charging Seat Production Market Share (2021-2026)

Table 42. Rest of World Based Solar Charging Seat Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Solar Charging Seat Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Solar Charging Seat Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Solar Charging Seat Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Solar Charging Seat Production Market Share (2021-2026)

Table 47. World Solar Charging Seat Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Solar Charging Seat Production by Type (2021-2026) & (K Units)

Table 49. World Solar Charging Seat Production by Type (2027-2032) & (K Units)

Table 50. World Solar Charging Seat Production Value by Type (2021-2026) & (USD Million)

Table 51. World Solar Charging Seat Production Value by Type (2027-2032) & (USD Million)

Table 52. World Solar Charging Seat Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Solar Charging Seat Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Solar Charging Seat Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 55. World Solar Charging Seat Production by Power (2021-2026) & (K Units)

Table 56. World Solar Charging Seat Production by Power (2027-2032) & (K Units)

Table 57. World Solar Charging Seat Production Value by Power (2021-2026) & (USD Million)

Table 58. World Solar Charging Seat Production Value by Power (2027-2032) & (USD Million)

Table 59. World Solar Charging Seat Average Price by Power (2021-2026) & (US\$/Unit)

Table 60. World Solar Charging Seat Average Price by Power (2027-2032) & (US\$/Unit)

Table 61. World Solar Charging Seat Production Value by Smart Function, (USD Million), 2021 & 2025 & 2032

Table 62. World Solar Charging Seat Production by Smart Function (2021-2026) & (K Units)

Table 63. World Solar Charging Seat Production by Smart Function (2027-2032) & (K Units)

Table 64. World Solar Charging Seat Production Value by Smart Function (2021-2026) & (USD Million)

Table 65. World Solar Charging Seat Production Value by Smart Function (2027-2032) & (USD Million)

Table 66. World Solar Charging Seat Average Price by Smart Function (2021-2026) & (US\$/Unit)

Table 67. World Solar Charging Seat Average Price by Smart Function (2027-2032) & (US\$/Unit)

Table 68. World Solar Charging Seat Production Value by Application, (USD Million),

2021 & 2025 & 2032

Table 69. World Solar Charging Seat Production by Application (2021-2026) & (K Units)

Table 70. World Solar Charging Seat Production by Application (2027-2032) & (K Units)

Table 71. World Solar Charging Seat Production Value by Application (2021-2026) & (USD Million)

Table 72. World Solar Charging Seat Production Value by Application (2027-2032) & (USD Million)

Table 73. World Solar Charging Seat Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Solar Charging Seat Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Sunbolt Basic Information, Manufacturing Base and Competitors

Table 76. Sunbolt Major Business

Table 77. Sunbolt Solar Charging Seat Product and Services

Table 78. Sunbolt Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Sunbolt Recent Developments/Updates

Table 80. Sunbolt Competitive Strengths & Weaknesses

Table 81. EnerFusion Inc Basic Information, Manufacturing Base and Competitors

Table 82. EnerFusion Inc Major Business

Table 83. EnerFusion Inc Solar Charging Seat Product and Services

Table 84. EnerFusion Inc Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. EnerFusion Inc Recent Developments/Updates

Table 86. EnerFusion Inc Competitive Strengths & Weaknesses

Table 87. EnGoPlanet Basic Information, Manufacturing Base and Competitors

Table 88. EnGoPlanet Major Business

Table 89. EnGoPlanet Solar Charging Seat Product and Services

Table 90. EnGoPlanet Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. EnGoPlanet Recent Developments/Updates

Table 92. EnGoPlanet Competitive Strengths & Weaknesses

Table 93. Strawberry Energy Basic Information, Manufacturing Base and Competitors

Table 94. Strawberry Energy Major Business

Table 95. Strawberry Energy Solar Charging Seat Product and Services

Table 96. Strawberry Energy Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Strawberry Energy Recent Developments/Updates

Table 98. Strawberry Energy Competitive Strengths & Weaknesses
Table 99. SEEDiA Basic Information, Manufacturing Base and Competitors
Table 100. SEEDiA Major Business
Table 101. SEEDiA Solar Charging Seat Product and Services
Table 102. SEEDiA Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. SEEDiA Recent Developments/Updates
Table 104. SEEDiA Competitive Strengths & Weaknesses
Table 105. The Solar Range Basic Information, Manufacturing Base and Competitors
Table 106. The Solar Range Major Business
Table 107. The Solar Range Solar Charging Seat Product and Services
Table 108. The Solar Range Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. The Solar Range Recent Developments/Updates
Table 110. The Solar Range Competitive Strengths & Weaknesses
Table 111. Lumossolar Basic Information, Manufacturing Base and Competitors
Table 112. Lumossolar Major Business
Table 113. Lumossolar Solar Charging Seat Product and Services
Table 114. Lumossolar Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Lumossolar Recent Developments/Updates
Table 116. Lumossolar Competitive Strengths & Weaknesses
Table 117. Hanchuk Tech Basic Information, Manufacturing Base and Competitors
Table 118. Hanchuk Tech Major Business
Table 119. Hanchuk Tech Solar Charging Seat Product and Services
Table 120. Hanchuk Tech Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Hanchuk Tech Recent Developments/Updates
Table 122. Hanchuk Tech Competitive Strengths & Weaknesses
Table 123. Nakamura Seisakusho Basic Information, Manufacturing Base and Competitors
Table 124. Nakamura Seisakusho Major Business
Table 125. Nakamura Seisakusho Solar Charging Seat Product and Services
Table 126. Nakamura Seisakusho Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Nakamura Seisakusho Recent Developments/Updates
Table 128. Nakamura Seisakusho Competitive Strengths & Weaknesses

Table 129. iBench Basic Information, Manufacturing Base and Competitors
Table 130. iBench Major Business
Table 131. iBench Solar Charging Seat Product and Services
Table 132. iBench Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. iBench Recent Developments/Updates
Table 134. iBench Competitive Strengths & Weaknesses
Table 135. Include Basic Information, Manufacturing Base and Competitors
Table 136. Include Major Business
Table 137. Include Solar Charging Seat Product and Services
Table 138. Include Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 139. Include Recent Developments/Updates
Table 140. Include Competitive Strengths & Weaknesses
Table 141. Superior Amenities Basic Information, Manufacturing Base and Competitors
Table 142. Superior Amenities Major Business
Table 143. Superior Amenities Solar Charging Seat Product and Services
Table 144. Superior Amenities Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 145. Superior Amenities Recent Developments/Updates
Table 146. Superior Amenities Competitive Strengths & Weaknesses
Table 147. Bluebolt Outdoor Basic Information, Manufacturing Base and Competitors
Table 148. Bluebolt Outdoor Major Business
Table 149. Bluebolt Outdoor Solar Charging Seat Product and Services
Table 150. Bluebolt Outdoor Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 151. Bluebolt Outdoor Recent Developments/Updates
Table 152. Bluebolt Outdoor Competitive Strengths & Weaknesses
Table 153. Foshan Nanhai Goose Intelligent Facilities Basic Information, Manufacturing Base and Competitors
Table 154. Foshan Nanhai Goose Intelligent Facilities Major Business
Table 155. Foshan Nanhai Goose Intelligent Facilities Solar Charging Seat Product and Services
Table 156. Foshan Nanhai Goose Intelligent Facilities Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 157. Foshan Nanhai Goose Intelligent Facilities Recent Developments/Updates

Table 158. Foshan Nanhai Goose Intelligent Facilities Competitive Strengths & Weaknesses

Table 159. Weiyin Intelligent Technology Basic Information, Manufacturing Base and Competitors

Table 160. Weiyin Intelligent Technology Major Business

Table 161. Weiyin Intelligent Technology Solar Charging Seat Product and Services

Table 162. Weiyin Intelligent Technology Solar Charging Seat Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Weiyin Intelligent Technology Recent Developments/Updates

Table 164. Weiyin Intelligent Technology Competitive Strengths & Weaknesses

Table 165. Global Key Players of Solar Charging Seat Upstream (Raw Materials)

Table 166. Global Solar Charging Seat Typical Customers

Table 167. Solar Charging Seat Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Solar Charging Seat Picture

Figure 2. World Solar Charging Seat Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Solar Charging Seat Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Solar Charging Seat Production (2021-2032) & (K Units)

Figure 5. World Solar Charging Seat Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Solar Charging Seat Production Value Market Share by Region (2021-2032)

Figure 7. World Solar Charging Seat Production Market Share by Region (2021-2032)

Figure 8. North America Solar Charging Seat Production (2021-2032) & (K Units)

Figure 9. Europe Solar Charging Seat Production (2021-2032) & (K Units)

Figure 10. China Solar Charging Seat Production (2021-2032) & (K Units)

Figure 11. Japan Solar Charging Seat Production (2021-2032) & (K Units)

Figure 12. Solar Charging Seat Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 15. World Solar Charging Seat Consumption Market Share by Region (2021-2032)

Figure 16. United States Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 17. China Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 18. Europe Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 19. Japan Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 20. South Korea Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 22. India Solar Charging Seat Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Solar Charging Seat by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Solar Charging Seat Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Solar Charging Seat Markets in 2025

Figure 26. United States VS China: Solar Charging Seat Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Solar Charging Seat Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Solar Charging Seat Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Solar Charging Seat Production Market Share 2025

Figure 30. China Based Manufacturers Solar Charging Seat Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Solar Charging Seat Production Market Share 2025

Figure 32. World Solar Charging Seat Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Solar Charging Seat Production Value Market Share by Type in 2025

Figure 34. USB Solar Charging Seat

Figure 35. Wireless Solar Charging Seat

Figure 36. World Solar Charging Seat Production Market Share by Type (2021-2032)

Figure 37. World Solar Charging Seat Production Value Market Share by Type (2021-2032)

Figure 38. World Solar Charging Seat Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Solar Charging Seat Production Value by Power, (USD Million), 2021 & 2025 & 2032

Figure 40. World Solar Charging Seat Production Value Market Share by Power in 2025

Figure 41. Low Power (?50 W)

Figure 42. Medium Power (50–150 W)

Figure 43. High Power (>150 W)

Figure 44. World Solar Charging Seat Production Market Share by Power (2021-2032)

Figure 45. World Solar Charging Seat Production Value Market Share by Power (2021-2032)

Figure 46. World Solar Charging Seat Average Price by Power (2021-2032) & (US\$/Unit)

Figure 47. World Solar Charging Seat Production Value by Smart Function, (USD Million), 2021 & 2025 & 2032

Figure 48. World Solar Charging Seat Production Value Market Share by Smart Function in 2025

Figure 49. Basic Solar Charging Seat

Figure 50. Smart Solar Charging Seat

Figure 51. Connected Solar Charging Seat

Figure 52. World Solar Charging Seat Production Market Share by Smart Function (2021-2032)

Figure 53. World Solar Charging Seat Production Value Market Share by Smart

Function (2021-2032)

Figure 54. World Solar Charging Seat Average Price by Smart Function (2021-2032) & (US\$/Unit)

Figure 55. World Solar Charging Seat Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Solar Charging Seat Production Value Market Share by Application in 2025

Figure 57. Park and Leisure Facilities

Figure 58. Smart City Public Facilities

Figure 59. Commercial Streetscape Furniture

Figure 60. Others

Figure 61. World Solar Charging Seat Production Market Share by Application (2021-2032)

Figure 62. World Solar Charging Seat Production Value Market Share by Application (2021-2032)

Figure 63. World Solar Charging Seat Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Solar Charging Seat Industry Chain

Figure 65. Solar Charging Seat Procurement Model

Figure 66. Solar Charging Seat Sales Model

Figure 67. Solar Charging Seat Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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