

Global Portable PV Panel Cleaning Robot Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G77B08FBB6DBEN.html>

Date: August 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G77B08FBB6DBEN

Abstracts

The global Portable PV Panel Cleaning Robot market size is expected to reach \$ 238 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

Portable PV Panel Cleaning Robot is a lightweight and movable cleaning device designed for photovoltaic module operation and maintenance, focusing on flexible deployment, easy transport, quick setup, and repeated cleaning across different PV panel arrays. Compared with a general portable solar panel cleaning robot, this product definition more specifically emphasizes photovoltaic panel compatibility, distributed PV operation scenarios, roof-mounted PV maintenance, small ground-mounted PV plants, and sites where fixed cleaning systems are difficult to justify. It uses brush or dry-cleaning modules, battery-powered drive, sensing control, and compact structural design to remove dust, sand, bird droppings, and surface deposits while reducing labor intensity and improving cleaning consistency. In 2025, production was approximately 40,000 units and the average price was USD 2,600 per unit. The industry's capacity utilization rate in 2025 was about 65% and the average gross margin was around 25%. Upstream, the key inputs include brushless motors, lithium batteries, sensors, and controllers, with representative suppliers such as Nidec, CATL, and Bosch providing drive motors, battery systems, sensing components, and control modules. The midstream segment focuses on lightweight structural design, portable drive system integration, PV panel walking mechanism development, cleaning module integration, battery endurance optimization, obstacle detection, route planning, dust and sand adaptability, waterproof and weather-resistant design, remote monitoring, safety testing, and automated assembly, which together determine cleaning efficiency, operating stability, handling convenience, PV panel compatibility, service life, and cost competitiveness. Downstream, Portable PV Panel Cleaning Robot is mainly used in

ground-mounted photovoltaic power stations and rooftop photovoltaic systems, with representative photovoltaic power generation companies including China Three Gorges Renewables, Enel Green Power, and NextEra Energy.

Portable PV Panel Cleaning Robot demand will be shaped by distributed photovoltaic expansion and the need for low-cost, flexible cleaning tools. Rooftop PV systems, industrial and commercial roofs, and small ground-mounted plants often have scattered layouts, limited access, and irregular cleaning cycles, making portable robots more practical than fixed cleaning systems. In large PV stations, they can also serve as supplementary equipment for special rows, edge zones, or maintenance teams. Customers will compare equipment by portability, setup speed, cleaning consistency, battery endurance, panel safety, weather resistance, maintenance cost, and adaptability to different PV installation structures.

This report studies the global Portable PV Panel Cleaning Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Portable PV Panel Cleaning Robot 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 Portable PV Panel Cleaning Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Portable PV Panel Cleaning Robot total production and demand, 2021-2032, (Units)

Global Portable PV Panel Cleaning Robot total production value, 2021-2032, (USD Million)

Global Portable PV Panel Cleaning Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Portable PV Panel Cleaning Robot consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Portable PV Panel Cleaning Robot domestic production, consumption, key domestic manufacturers and share

Global Portable PV Panel Cleaning Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Portable PV Panel Cleaning Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Portable PV Panel Cleaning Robot production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Portable PV Panel Cleaning Robot 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 Ecoppia (Israel), Sunpure Technology (China), Airtouch Solar (Israel), SolarCleanso (Luxembourg), TG hyLIFT GmbH (Germany), SERBOT AG (Switzerland), Miraikikai (Japan), BladeRanger (Israel), Aegeus Technologies (India), SolarACM Systems Corporation (USA), 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 Portable PV Panel Cleaning Robot market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Portable PV Panel Cleaning Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Portable PV Panel Cleaning Robot Market, Segmentation by Type:

Single-Brush

Dual-Brush

Others

Global Portable PV Panel Cleaning Robot Market, Segmentation by Cleaning Method:

Dry Cleaning Solar Panel Robot

Wet Cleaning Solar Panel Robot

Global Portable PV Panel Cleaning Robot Market, Segmentation by Cleaning Capacity:

Capacity

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Portable PV Panel Cleaning Robot Demand (2021-2032)
- 2.2 World Portable PV Panel Cleaning Robot Consumption by Region
 - 2.2.1 World Portable PV Panel Cleaning Robot Consumption by Region (2021-2026)
 - 2.2.2 World Portable PV Panel Cleaning Robot Consumption Forecast by Region (2027-2032)
- 2.3 United States Portable PV Panel Cleaning Robot Consumption (2021-2032)
- 2.4 China Portable PV Panel Cleaning Robot Consumption (2021-2032)
- 2.5 Europe Portable PV Panel Cleaning Robot Consumption (2021-2032)
- 2.6 Japan Portable PV Panel Cleaning Robot Consumption (2021-2032)
- 2.7 South Korea Portable PV Panel Cleaning Robot Consumption (2021-2032)
- 2.8 ASEAN Portable PV Panel Cleaning Robot Consumption (2021-2032)

2.9 India Portable PV Panel Cleaning Robot Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Portable PV Panel Cleaning Robot Production Value by Manufacturer (2021-2026)

3.2 World Portable PV Panel Cleaning Robot Production by Manufacturer (2021-2026)

3.3 World Portable PV Panel Cleaning Robot Average Price by Manufacturer (2021-2026)

3.4 Portable PV Panel Cleaning Robot Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Portable PV Panel Cleaning Robot Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Portable PV Panel Cleaning Robot in 2025

3.5.3 Global Concentration Ratios (CR8) for Portable PV Panel Cleaning Robot in 2025

3.6 Portable PV Panel Cleaning Robot Market: Overall Company Footprint Analysis

3.6.1 Portable PV Panel Cleaning Robot Market: Region Footprint

3.6.2 Portable PV Panel Cleaning Robot Market: Company Product Type Footprint

3.6.3 Portable PV Panel Cleaning Robot 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: Portable PV Panel Cleaning Robot Production Value Comparison

4.1.1 United States VS China: Portable PV Panel Cleaning Robot Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Portable PV Panel Cleaning Robot Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Portable PV Panel Cleaning Robot Production Comparison

4.2.1 United States VS China: Portable PV Panel Cleaning Robot Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Portable PV Panel Cleaning Robot Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Portable PV Panel Cleaning Robot Consumption Comparison

4.3.1 United States VS China: Portable PV Panel Cleaning Robot Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Portable PV Panel Cleaning Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Portable PV Panel Cleaning Robot Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Portable PV Panel Cleaning Robot Production Value (2021-2026)

4.4.3 United States Based Manufacturers Portable PV Panel Cleaning Robot Production (2021-2026)

4.5 China Based Portable PV Panel Cleaning Robot Manufacturers and Market Share

4.5.1 China Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Portable PV Panel Cleaning Robot Production Value (2021-2026)

4.5.3 China Based Manufacturers Portable PV Panel Cleaning Robot Production (2021-2026)

4.6 Rest of World Based Portable PV Panel Cleaning Robot Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Portable PV Panel Cleaning Robot Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single-Brush

5.2.2 Dual-Brush

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Portable PV Panel Cleaning Robot Production by Type (2021-2032)

5.3.2 World Portable PV Panel Cleaning Robot Production Value by Type (2021-2032)

5.3.3 World Portable PV Panel Cleaning Robot Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CLEANING METHOD

6.1 World Portable PV Panel Cleaning Robot Market Size Overview by Cleaning Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cleaning Method

6.2.1 Dry Cleaning Solar Panel Robot

6.2.2 Wet Cleaning Solar Panel Robot

6.3 Market Segment by Cleaning Method

6.3.1 World Portable PV Panel Cleaning Robot Production by Cleaning Method (2021-2032)

6.3.2 World Portable PV Panel Cleaning Robot Production Value by Cleaning Method (2021-2032)

6.3.3 World Portable PV Panel Cleaning Robot Average Price by Cleaning Method (2021-2032)

7 MARKET ANALYSIS BY CLEANING CAPACITY

7.1 World Portable PV Panel Cleaning Robot Market Size Overview by Cleaning Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cleaning Capacity

7.2.1 Capacity

List Of Tables

LIST OF TABLES

Table 1. World Portable PV Panel Cleaning Robot Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Portable PV Panel Cleaning Robot Production Value by Region (2021-2026) & (USD Million)

Table 3. World Portable PV Panel Cleaning Robot Production Value by Region (2027-2032) & (USD Million)

Table 4. World Portable PV Panel Cleaning Robot Production Value Market Share by Region (2021-2026)

Table 5. World Portable PV Panel Cleaning Robot Production Value Market Share by Region (2027-2032)

Table 6. World Portable PV Panel Cleaning Robot Production by Region (2021-2026) & (Units)

Table 7. World Portable PV Panel Cleaning Robot Production by Region (2027-2032) & (Units)

Table 8. World Portable PV Panel Cleaning Robot Production Market Share by Region (2021-2026)

Table 9. World Portable PV Panel Cleaning Robot Production Market Share by Region (2027-2032)

Table 10. World Portable PV Panel Cleaning Robot Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Portable PV Panel Cleaning Robot Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Portable PV Panel Cleaning Robot Major Market Trends

Table 13. World Portable PV Panel Cleaning Robot Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Portable PV Panel Cleaning Robot Consumption by Region (2021-2026) & (Units)

Table 15. World Portable PV Panel Cleaning Robot Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Portable PV Panel Cleaning Robot Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Portable PV Panel Cleaning Robot Producers in 2025

Table 18. World Portable PV Panel Cleaning Robot Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Portable PV Panel Cleaning Robot Producers in 2025

Table 20. World Portable PV Panel Cleaning Robot Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Portable PV Panel Cleaning Robot Company Evaluation Quadrant

Table 22. World Portable PV Panel Cleaning Robot Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Portable PV Panel Cleaning Robot Production Site of Key Manufacturer

Table 24. Portable PV Panel Cleaning Robot Market: Company Product Type Footprint

Table 25. Portable PV Panel Cleaning Robot Market: Company Product Application Footprint

Table 26. Portable PV Panel Cleaning Robot Competitive Factors

Table 27. Portable PV Panel Cleaning Robot New Entrant and Capacity Expansion Plans

Table 28. Portable PV Panel Cleaning Robot Mergers & Acquisitions Activity

Table 29. United States VS China Portable PV Panel Cleaning Robot Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Portable PV Panel Cleaning Robot Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Portable PV Panel Cleaning Robot Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Portable PV Panel Cleaning Robot Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Portable PV Panel Cleaning Robot Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Portable PV Panel Cleaning Robot Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share (2021-2026)

Table 37. China Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Portable PV Panel Cleaning Robot Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Portable PV Panel Cleaning Robot Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Portable PV Panel Cleaning Robot Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share (2021-2026)

Table 42. Rest of World Based Portable PV Panel Cleaning Robot Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share (2021-2026)

Table 47. World Portable PV Panel Cleaning Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Portable PV Panel Cleaning Robot Production by Type (2021-2026) & (Units)

Table 49. World Portable PV Panel Cleaning Robot Production by Type (2027-2032) & (Units)

Table 50. World Portable PV Panel Cleaning Robot Production Value by Type (2021-2026) & (USD Million)

Table 51. World Portable PV Panel Cleaning Robot Production Value by Type (2027-2032) & (USD Million)

Table 52. World Portable PV Panel Cleaning Robot Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Portable PV Panel Cleaning Robot Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Portable PV Panel Cleaning Robot Production Value by Cleaning Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Portable PV Panel Cleaning Robot Production by Cleaning Method (2021-2026) & (Units)

Table 56. World Portable PV Panel Cleaning Robot Production by Cleaning Method (2027-2032) & (Units)

Table 57. World Portable PV Panel Cleaning Robot Production Value by Cleaning Method (2021-2026) & (USD Million)

Table 58. World Portable PV Panel Cleaning Robot Production Value by Cleaning Method (2027-2032) & (USD Million)

Table 59. World Portable PV Panel Cleaning Robot Average Price by Cleaning Method (2021-2026) & (US\$/Unit)

Table 60. World Portable PV Panel Cleaning Robot Average Price by Cleaning Method (2027-2032) & (US\$/Unit)

Table 61. World Portable PV Panel Cleaning Robot Production Value by Cleaning Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Portable PV Panel Cleaning Robot Production by Cleaning Capacity (2021-2026) & (Units)

Table 63. World Portable PV Panel Cleaning Robot Production by Cleaning Capacity (2027-2032) & (Units)

Table 64. World Portable PV Panel Cleaning Robot Production Value by Cleaning Capacity (2021-2026) & (USD Million)

Table 65. World Portable PV Panel Cleaning Robot Production Value by Cleaning Capacity (2027-2032) & (USD Million)

Table 66. World Portable PV Panel Cleaning Robot Average Price by Cleaning Capacity (2021-2026) & (US\$/Unit)

Table 67. World Portable PV Panel Cleaning Robot Average Price by Cleaning Capacity (2027-2032) & (US\$/Unit)

Table 68. World Portable PV Panel Cleaning Robot Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Portable PV Panel Cleaning Robot Production by Application (2021-2026) & (Units)

Table 70. World Portable PV Panel Cleaning Robot Production by Application (2027-2032) & (Units)

Table 71. World Portable PV Panel Cleaning Robot Production Value by Application (2021-2026) & (USD Million)

Table 72. World Portable PV Panel Cleaning Robot Production Value by Application (2027-2032) & (USD Million)

Table 73. World Portable PV Panel Cleaning Robot Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Portable PV Panel Cleaning Robot Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Ecoppia (Israel) Basic Information, Manufacturing Base and Competitors

Table 76. Ecoppia (Israel) Major Business

Table 77. Ecoppia (Israel) Portable PV Panel Cleaning Robot Product and Services

Table 78. Ecoppia (Israel) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Ecoppia (Israel) Recent Developments/Updates

Table 80. Ecoppia (Israel) Competitive Strengths & Weaknesses

Table 81. Sunpure Technology (China) Basic Information, Manufacturing Base and

Competitors

Table 82. Sunpure Technology (China) Major Business

Table 83. Sunpure Technology (China) Portable PV Panel Cleaning Robot Product and Services

Table 84. Sunpure Technology (China) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sunpure Technology (China) Recent Developments/Updates

Table 86. Sunpure Technology (China) Competitive Strengths & Weaknesses

Table 87. Airtouch Solar (Israel) Basic Information, Manufacturing Base and Competitors

Table 88. Airtouch Solar (Israel) Major Business

Table 89. Airtouch Solar (Israel) Portable PV Panel Cleaning Robot Product and Services

Table 90. Airtouch Solar (Israel) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Airtouch Solar (Israel) Recent Developments/Updates

Table 92. Airtouch Solar (Israel) Competitive Strengths & Weaknesses

Table 93. SolarCleanso (Luxembourg) Basic Information, Manufacturing Base and Competitors

Table 94. SolarCleanso (Luxembourg) Major Business

Table 95. SolarCleanso (Luxembourg) Portable PV Panel Cleaning Robot Product and Services

Table 96. SolarCleanso (Luxembourg) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SolarCleanso (Luxembourg) Recent Developments/Updates

Table 98. SolarCleanso (Luxembourg) Competitive Strengths & Weaknesses

Table 99. TG hyLIFT GmbH (Germany) Basic Information, Manufacturing Base and Competitors

Table 100. TG hyLIFT GmbH (Germany) Major Business

Table 101. TG hyLIFT GmbH (Germany) Portable PV Panel Cleaning Robot Product and Services

Table 102. TG hyLIFT GmbH (Germany) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. TG hyLIFT GmbH (Germany) Recent Developments/Updates

Table 104. TG hyLIFT GmbH (Germany) Competitive Strengths & Weaknesses

Table 105. SERBOT AG (Switzerland) Basic Information, Manufacturing Base and Competitors

Table 106. SERBOT AG (Switzerland) Major Business

Table 107. SERBOT AG (Switzerland) Portable PV Panel Cleaning Robot Product and Services

Table 108. SERBOT AG (Switzerland) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. SERBOT AG (Switzerland) Recent Developments/Updates

Table 110. SERBOT AG (Switzerland) Competitive Strengths & Weaknesses

Table 111. Miraikikai (Japan) Basic Information, Manufacturing Base and Competitors

Table 112. Miraikikai (Japan) Major Business

Table 113. Miraikikai (Japan) Portable PV Panel Cleaning Robot Product and Services

Table 114. Miraikikai (Japan) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Miraikikai (Japan) Recent Developments/Updates

Table 116. Miraikikai (Japan) Competitive Strengths & Weaknesses

Table 117. BladeRanger (Israel) Basic Information, Manufacturing Base and Competitors

Table 118. BladeRanger (Israel) Major Business

Table 119. BladeRanger (Israel) Portable PV Panel Cleaning Robot Product and Services

Table 120. BladeRanger (Israel) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. BladeRanger (Israel) Recent Developments/Updates

Table 122. BladeRanger (Israel) Competitive Strengths & Weaknesses

Table 123. Aegeus Technologies (India) Basic Information, Manufacturing Base and Competitors

Table 124. Aegeus Technologies (India) Major Business

Table 125. Aegeus Technologies (India) Portable PV Panel Cleaning Robot Product and Services

Table 126. Aegeus Technologies (India) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Aegeus Technologies (India) Recent Developments/Updates

Table 128. Aegeus Technologies (India) Competitive Strengths & Weaknesses

Table 129. SolarACM Systems Corporation (USA) Basic Information, Manufacturing

Base and Competitors

Table 130. SolarACM Systems Corporation (USA) Major Business

Table 131. SolarACM Systems Corporation (USA) Portable PV Panel Cleaning Robot Product and Services

Table 132. SolarACM Systems Corporation (USA) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SolarACM Systems Corporation (USA) Recent Developments/Updates

Table 134. SolarACM Systems Corporation (USA) Competitive Strengths & Weaknesses

Table 135. Boson Robotics (India) Basic Information, Manufacturing Base and Competitors

Table 136. Boson Robotics (India) Major Business

Table 137. Boson Robotics (India) Portable PV Panel Cleaning Robot Product and Services

Table 138. Boson Robotics (India) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Boson Robotics (India) Recent Developments/Updates

Table 140. Boson Robotics (India) Competitive Strengths & Weaknesses

Table 141. Sol-Bright Technology (China) Basic Information, Manufacturing Base and Competitors

Table 142. Sol-Bright Technology (China) Major Business

Table 143. Sol-Bright Technology (China) Portable PV Panel Cleaning Robot Product and Services

Table 144. Sol-Bright Technology (China) Portable PV Panel Cleaning Robot Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Sol-Bright Technology (China) Recent Developments/Updates

Table 146. Sol-Bright Technology (China) Competitive Strengths & Weaknesses

Table 147. Global Key Players of Portable PV Panel Cleaning Robot Upstream (Raw Materials)

Table 148. Global Portable PV Panel Cleaning Robot Typical Customers

Table 149. Portable PV Panel Cleaning Robot Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Portable PV Panel Cleaning Robot Picture

Figure 2. World Portable PV Panel Cleaning Robot Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Portable PV Panel Cleaning Robot Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 5. World Portable PV Panel Cleaning Robot Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Portable PV Panel Cleaning Robot Production Value Market Share by Region (2021-2032)

Figure 7. World Portable PV Panel Cleaning Robot Production Market Share by Region (2021-2032)

Figure 8. North America Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 9. Europe Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 10. China Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 11. Japan Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 12. India Portable PV Panel Cleaning Robot Production (2021-2032) & (Units)

Figure 13. Portable PV Panel Cleaning Robot Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 16. World Portable PV Panel Cleaning Robot Consumption Market Share by Region (2021-2032)

Figure 17. United States Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 18. China Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 19. Europe Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 20. Japan Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 21. South Korea Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 22. ASEAN Portable PV Panel Cleaning Robot Consumption (2021-2032) &

(Units)

Figure 23. India Portable PV Panel Cleaning Robot Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Portable PV Panel Cleaning Robot by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Portable PV Panel Cleaning Robot Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Portable PV Panel Cleaning Robot Markets in 2025

Figure 27. United States VS China: Portable PV Panel Cleaning Robot Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Portable PV Panel Cleaning Robot Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Portable PV Panel Cleaning Robot Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share 2025

Figure 31. China Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Portable PV Panel Cleaning Robot Production Market Share 2025

Figure 33. World Portable PV Panel Cleaning Robot Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Portable PV Panel Cleaning Robot Production Value Market Share by Type in 2025

Figure 35. Single-Brush

Figure 36. Dual-Brush

Figure 37. Others

Figure 38. World Portable PV Panel Cleaning Robot Production Market Share by Type (2021-2032)

Figure 39. World Portable PV Panel Cleaning Robot Production Value Market Share by Type (2021-2032)

Figure 40. World Portable PV Panel Cleaning Robot Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Portable PV Panel Cleaning Robot Production Value by Cleaning Method, (USD Million), 2021 & 2025 & 2032

Figure 42. World Portable PV Panel Cleaning Robot Production Value Market Share by Cleaning Method in 2025

Figure 43. Dry Cleaning Solar Panel Robot

Figure 44. Wet Cleaning Solar Panel Robot

Figure 45. World Portable PV Panel Cleaning Robot Production Market Share by Cleaning Method (2021-2032)

Figure 46. World Portable PV Panel Cleaning Robot Production Value Market Share by Cleaning Method (2021-2032)

Figure 47. World Portable PV Panel Cleaning Robot Average Price by Cleaning Method (2021-2032) & (US\$/Unit)

Figure 48. World Portable PV Panel Cleaning Robot Production Value by Cleaning Capacity, (USD Million), 2021 & 2025 & 2032

Figure 49. World Portable PV Panel Cleaning Robot Production Value Market Share by Cleaning Capacity in 2025

Figure 50. Capacity

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