

# Global MPPT Controllers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global MPPT Controllers market size was valued at US\$ 274 million in 2025 and is forecast to a readjusted size of US\$ 412 million by 2032 with a CAGR of 6.0% during review period.

In 2025, global MPPT Controllers production reached approximately 2.7 million units, with an average global market price of around US\$ 100 per unit. Annual production capacity is 3 million units. Gross Profit Margin: 36%. MPPT Controllers (Maximum Power Point Tracking Controllers) are specialized devices used in solar power systems to maximize the efficiency of power extraction from solar panels. The MPPT controller industry chain starts upstream with suppliers of semiconductors, microcontrollers, power electronics components, sensors, and connectors. The midstream consists of MPPT controller manufacturers who design, assemble, and test the devices, often integrating software for battery management and solar system monitoring. Downstream, distributors, solar EPC companies, and system integrators deliver MPPT controllers to residential, commercial, industrial, and off-grid solar users, while after-sales service and software updates support long-term performance and efficiency. MPPT controller market represents a steady and essential growth segment within the broader solar energy industry.

This report is a detailed and comprehensive analysis for global MPPT Controllers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some

of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global MPPT Controllers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MPPT Controllers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MPPT Controllers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global MPPT Controllers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for MPPT Controllers

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global MPPT Controllers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Victron Energy (Private, Netherlands), Renogy (Private, USA), Morningstar Corporation (Private, USA), OutBack Power (Private, USA), EPEVER (Private, China), Phocos AG (Private, Germany), Steca Elektronik (Private, Germany), Blue Sky Energy (Private, USA), Genasun LLC (Private, USA), Midnite Solar (Private, USA), etc.

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

### **Market Segmentation**

MPPT Controllers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

- Lead-Acid Batteries

- Lithium-Ion Batteries (Li-ion / LiFePO<sub>4</sub>)

- Others (NiMH, Gel, etc.)

#### Market segment by Output Capacity

- Low Capacity (50?A)

#### Market segment by Installation Type

- Rooftop Solar Systems

- Ground-Mounted Solar Farms

- Portable / Mobile Solar Systems

#### Market segment by Application

- Residential Solar Systems

- Commercial & Industrial Solar Systems

#### Major players covered

- Victron Energy (Private, Netherlands)

Renogy (Private, USA)

Morningstar Corporation (Private, USA)

OutBack Power (Private, USA)

EPEVER (Private, China)

Phocos AG (Private, Germany)

Steca Elektronik (Private, Germany)

Blue Sky Energy (Private, USA)

Genasun LLC (Private, USA)

Midnite Solar (Private, USA)

Luminous Power Technologies (Private, India)

Just Solar (Private, China)

Ktech Energy (Private, China)

TopFence (Private, China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe MPPT Controllers product scope, market overview, market

estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MPPT Controllers, with price, sales quantity, revenue, and global market share of MPPT Controllers from 2021 to 2026.

Chapter 3, the MPPT Controllers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MPPT Controllers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and MPPT Controllers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MPPT Controllers.

Chapter 14 and 15, to describe MPPT Controllers sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global MPPT Controllers Consumption Value by Type: 2021 Versus 2025 Versus 2032
  - 1.3.2 Lead-Acid Batteries
  - 1.3.3 Lithium-Ion Batteries (Li-ion / LiFePO4)
  - 1.3.4 Others (NiMH, Gel, etc.)
- 1.4 Market Analysis by Output Capacity
  - 1.4.1 Overview: Global MPPT Controllers Consumption Value by Output Capacity: 2021 Versus 2025 Versus 2032
  - 1.4.2 Low Capacity (50?A)
- 1.5 Market Analysis by Installation Type
  - 1.5.1 Overview: Global MPPT Controllers Consumption Value by Installation Type: 2021 Versus 2025 Versus 2032
  - 1.5.2 Rooftop Solar Systems
  - 1.5.3 Ground-Mounted Solar Farms
  - 1.5.4 Portable / Mobile Solar Systems
- 1.6 Market Analysis by Application
  - 1.6.1 Overview: Global MPPT Controllers Consumption Value by Application: 2021 Versus 2025 Versus 2032
  - 1.6.2 Residential Solar Systems
  - 1.6.3 Commercial & Industrial Solar Systems
- 1.7 Global MPPT Controllers Market Size & Forecast
  - 1.7.1 Global MPPT Controllers Consumption Value (2021 & 2025 & 2032)
  - 1.7.2 Global MPPT Controllers Sales Quantity (2021-2032)
  - 1.7.3 Global MPPT Controllers Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

- 2.1 Victron Energy (Private, Netherlands)
  - 2.1.1 Victron Energy (Private, Netherlands) Details
  - 2.1.2 Victron Energy (Private, Netherlands) Major Business
  - 2.1.3 Victron Energy (Private, Netherlands) MPPT Controllers Product and Services
  - 2.1.4 Victron Energy (Private, Netherlands) MPPT Controllers Sales Quantity, Average

## Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.1.5 Victron Energy (Private, Netherlands) Recent Developments/Updates

## 2.2 Renogy (Private, USA)

### 2.2.1 Renogy (Private, USA) Details

### 2.2.2 Renogy (Private, USA) Major Business

### 2.2.3 Renogy (Private, USA) MPPT Controllers Product and Services

### 2.2.4 Renogy (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.2.5 Renogy (Private, USA) Recent Developments/Updates

## 2.3 Morningstar Corporation (Private, USA)

### 2.3.1 Morningstar Corporation (Private, USA) Details

### 2.3.2 Morningstar Corporation (Private, USA) Major Business

### 2.3.3 Morningstar Corporation (Private, USA) MPPT Controllers Product and Services

### 2.3.4 Morningstar Corporation (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.3.5 Morningstar Corporation (Private, USA) Recent Developments/Updates

## 2.4 OutBack Power (Private, USA)

### 2.4.1 OutBack Power (Private, USA) Details

### 2.4.2 OutBack Power (Private, USA) Major Business

### 2.4.3 OutBack Power (Private, USA) MPPT Controllers Product and Services

### 2.4.4 OutBack Power (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.4.5 OutBack Power (Private, USA) Recent Developments/Updates

## 2.5 EPEVER (Private, China)

### 2.5.1 EPEVER (Private, China) Details

### 2.5.2 EPEVER (Private, China) Major Business

### 2.5.3 EPEVER (Private, China) MPPT Controllers Product and Services

### 2.5.4 EPEVER (Private, China) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.5.5 EPEVER (Private, China) Recent Developments/Updates

## 2.6 Phocos AG (Private, Germany)

### 2.6.1 Phocos AG (Private, Germany) Details

### 2.6.2 Phocos AG (Private, Germany) Major Business

### 2.6.3 Phocos AG (Private, Germany) MPPT Controllers Product and Services

### 2.6.4 Phocos AG (Private, Germany) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.6.5 Phocos AG (Private, Germany) Recent Developments/Updates

## 2.7 Steca Elektronik (Private, Germany)

### 2.7.1 Steca Elektronik (Private, Germany) Details

- 2.7.2 Steca Elektronik (Private, Germany) Major Business
- 2.7.3 Steca Elektronik (Private, Germany) MPPT Controllers Product and Services
- 2.7.4 Steca Elektronik (Private, Germany) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Steca Elektronik (Private, Germany) Recent Developments/Updates
- 2.8 Blue Sky Energy (Private, USA)
  - 2.8.1 Blue Sky Energy (Private, USA) Details
  - 2.8.2 Blue Sky Energy (Private, USA) Major Business
  - 2.8.3 Blue Sky Energy (Private, USA) MPPT Controllers Product and Services
  - 2.8.4 Blue Sky Energy (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 Blue Sky Energy (Private, USA) Recent Developments/Updates
- 2.9 Genasun LLC (Private, USA)
  - 2.9.1 Genasun LLC (Private, USA) Details
  - 2.9.2 Genasun LLC (Private, USA) Major Business
  - 2.9.3 Genasun LLC (Private, USA) MPPT Controllers Product and Services
  - 2.9.4 Genasun LLC (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Genasun LLC (Private, USA) Recent Developments/Updates
- 2.10 Midnite Solar (Private, USA)
  - 2.10.1 Midnite Solar (Private, USA) Details
  - 2.10.2 Midnite Solar (Private, USA) Major Business
  - 2.10.3 Midnite Solar (Private, USA) MPPT Controllers Product and Services
  - 2.10.4 Midnite Solar (Private, USA) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Midnite Solar (Private, USA) Recent Developments/Updates
- 2.11 Luminous Power Technologies (Private, India)
  - 2.11.1 Luminous Power Technologies (Private, India) Details
  - 2.11.2 Luminous Power Technologies (Private, India) Major Business
  - 2.11.3 Luminous Power Technologies (Private, India) MPPT Controllers Product and Services
  - 2.11.4 Luminous Power Technologies (Private, India) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 Luminous Power Technologies (Private, India) Recent Developments/Updates
- 2.12 Just Solar (Private, China)
  - 2.12.1 Just Solar (Private, China) Details
  - 2.12.2 Just Solar (Private, China) Major Business
  - 2.12.3 Just Solar (Private, China) MPPT Controllers Product and Services
  - 2.12.4 Just Solar (Private, China) MPPT Controllers Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Just Solar (Private, China) Recent Developments/Updates

2.13 Ktech Energy (Private, China)

2.13.1 Ktech Energy (Private, China) Details

2.13.2 Ktech Energy (Private, China) Major Business

2.13.3 Ktech Energy (Private, China) MPPT Controllers Product and Services

2.13.4 Ktech Energy (Private, China) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Ktech Energy (Private, China) Recent Developments/Updates

2.14 TopFence (Private, China)

2.14.1 TopFence (Private, China) Details

2.14.2 TopFence (Private, China) Major Business

2.14.3 TopFence (Private, China) MPPT Controllers Product and Services

2.14.4 TopFence (Private, China) MPPT Controllers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 TopFence (Private, China) Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: MPPT CONTROLLERS BY MANUFACTURER**

3.1 Global MPPT Controllers Sales Quantity by Manufacturer (2021-2026)

3.2 Global MPPT Controllers Revenue by Manufacturer (2021-2026)

3.3 Global MPPT Controllers Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of MPPT Controllers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 MPPT Controllers Manufacturer Market Share in 2025

3.4.3 Top 6 MPPT Controllers Manufacturer Market Share in 2025

3.5 MPPT Controllers Market: Overall Company Footprint Analysis

3.5.1 MPPT Controllers Market: Region Footprint

3.5.2 MPPT Controllers Market: Company Product Type Footprint

3.5.3 MPPT Controllers Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

4.1 Global MPPT Controllers Market Size by Region

4.1.1 Global MPPT Controllers Sales Quantity by Region (2021-2032)

4.1.2 Global MPPT Controllers Consumption Value by Region (2021-2032)

- 4.1.3 Global MPPT Controllers Average Price by Region (2021-2032)
- 4.2 North America MPPT Controllers Consumption Value (2021-2032)
- 4.3 Europe MPPT Controllers Consumption Value (2021-2032)
- 4.4 Asia-Pacific MPPT Controllers Consumption Value (2021-2032)
- 4.5 South America MPPT Controllers Consumption Value (2021-2032)
- 4.6 Middle East & Africa MPPT Controllers Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global MPPT Controllers Sales Quantity by Type (2021-2032)
- 5.2 Global MPPT Controllers Consumption Value by Type (2021-2032)
- 5.3 Global MPPT Controllers Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global MPPT Controllers Sales Quantity by Application (2021-2032)
- 6.2 Global MPPT Controllers Consumption Value by Application (2021-2032)
- 6.3 Global MPPT Controllers Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America MPPT Controllers Sales Quantity by Type (2021-2032)
- 7.2 North America MPPT Controllers Sales Quantity by Application (2021-2032)
- 7.3 North America MPPT Controllers Market Size by Country
  - 7.3.1 North America MPPT Controllers Sales Quantity by Country (2021-2032)
  - 7.3.2 North America MPPT Controllers Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe MPPT Controllers Sales Quantity by Type (2021-2032)
- 8.2 Europe MPPT Controllers Sales Quantity by Application (2021-2032)
- 8.3 Europe MPPT Controllers Market Size by Country
  - 8.3.1 Europe MPPT Controllers Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe MPPT Controllers Consumption Value by Country (2021-2032)
  - 8.3.3 Germany Market Size and Forecast (2021-2032)
  - 8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific MPPT Controllers Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific MPPT Controllers Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific MPPT Controllers Market Size by Region

9.3.1 Asia-Pacific MPPT Controllers Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific MPPT Controllers Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

10.1 South America MPPT Controllers Sales Quantity by Type (2021-2032)

10.2 South America MPPT Controllers Sales Quantity by Application (2021-2032)

10.3 South America MPPT Controllers Market Size by Country

10.3.1 South America MPPT Controllers Sales Quantity by Country (2021-2032)

10.3.2 South America MPPT Controllers Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa MPPT Controllers Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa MPPT Controllers Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa MPPT Controllers Market Size by Country

11.3.1 Middle East & Africa MPPT Controllers Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa MPPT Controllers Consumption Value by Country  
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

### 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 MPPT Controllers Market Drivers
- 12.2 MPPT Controllers Market Restraints
- 12.3 MPPT Controllers Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of MPPT Controllers and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of MPPT Controllers
- 13.3 MPPT Controllers Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 MPPT Controllers Typical Distributors
- 14.3 MPPT Controllers Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global MPPT Controllers Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global MPPT Controllers Consumption Value by Output Capacity, (USD Million), 2021 & 2025 & 2032

Table 3. Global MPPT Controllers Consumption Value by Installation Type, (USD Million), 2021 & 2025 & 2032

Table 4. Global MPPT Controllers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Victron Energy (Private, Netherlands) Basic Information, Manufacturing Base and Competitors

Table 6. Victron Energy (Private, Netherlands) Major Business

Table 7. Victron Energy (Private, Netherlands) MPPT Controllers Product and Services

Table 8. Victron Energy (Private, Netherlands) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Victron Energy (Private, Netherlands) Recent Developments/Updates

Table 10. Renogy (Private, USA) Basic Information, Manufacturing Base and Competitors

Table 11. Renogy (Private, USA) Major Business

Table 12. Renogy (Private, USA) MPPT Controllers Product and Services

Table 13. Renogy (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Renogy (Private, USA) Recent Developments/Updates

Table 15. Morningstar Corporation (Private, USA) Basic Information, Manufacturing Base and Competitors

Table 16. Morningstar Corporation (Private, USA) Major Business

Table 17. Morningstar Corporation (Private, USA) MPPT Controllers Product and Services

Table 18. Morningstar Corporation (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Morningstar Corporation (Private, USA) Recent Developments/Updates

Table 20. OutBack Power (Private, USA) Basic Information, Manufacturing Base and Competitors

Table 21. OutBack Power (Private, USA) Major Business

Table 22. OutBack Power (Private, USA) MPPT Controllers Product and Services

Table 23. OutBack Power (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. OutBack Power (Private, USA) Recent Developments/Updates

Table 25. EPEVER (Private, China) Basic Information, Manufacturing Base and Competitors

Table 26. EPEVER (Private, China) Major Business

Table 27. EPEVER (Private, China) MPPT Controllers Product and Services

Table 28. EPEVER (Private, China) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. EPEVER (Private, China) Recent Developments/Updates

Table 30. Phocos AG (Private, Germany) Basic Information, Manufacturing Base and Competitors

Table 31. Phocos AG (Private, Germany) Major Business

Table 32. Phocos AG (Private, Germany) MPPT Controllers Product and Services

Table 33. Phocos AG (Private, Germany) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Phocos AG (Private, Germany) Recent Developments/Updates

Table 35. Steca Elektronik (Private, Germany) Basic Information, Manufacturing Base and Competitors

Table 36. Steca Elektronik (Private, Germany) Major Business

Table 37. Steca Elektronik (Private, Germany) MPPT Controllers Product and Services

Table 38. Steca Elektronik (Private, Germany) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Steca Elektronik (Private, Germany) Recent Developments/Updates

Table 40. Blue Sky Energy (Private, USA) Basic Information, Manufacturing Base and Competitors

Table 41. Blue Sky Energy (Private, USA) Major Business

Table 42. Blue Sky Energy (Private, USA) MPPT Controllers Product and Services

Table 43. Blue Sky Energy (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Blue Sky Energy (Private, USA) Recent Developments/Updates

Table 45. Genasun LLC (Private, USA) Basic Information, Manufacturing Base and Competitors

- Table 46. Genasun LLC (Private, USA) Major Business
- Table 47. Genasun LLC (Private, USA) MPPT Controllers Product and Services
- Table 48. Genasun LLC (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Genasun LLC (Private, USA) Recent Developments/Updates
- Table 50. Midnite Solar (Private, USA) Basic Information, Manufacturing Base and Competitors
- Table 51. Midnite Solar (Private, USA) Major Business
- Table 52. Midnite Solar (Private, USA) MPPT Controllers Product and Services
- Table 53. Midnite Solar (Private, USA) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. Midnite Solar (Private, USA) Recent Developments/Updates
- Table 55. Luminous Power Technologies (Private, India) Basic Information, Manufacturing Base and Competitors
- Table 56. Luminous Power Technologies (Private, India) Major Business
- Table 57. Luminous Power Technologies (Private, India) MPPT Controllers Product and Services
- Table 58. Luminous Power Technologies (Private, India) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 59. Luminous Power Technologies (Private, India) Recent Developments/Updates
- Table 60. Just Solar (Private, China) Basic Information, Manufacturing Base and Competitors
- Table 61. Just Solar (Private, China) Major Business
- Table 62. Just Solar (Private, China) MPPT Controllers Product and Services
- Table 63. Just Solar (Private, China) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 64. Just Solar (Private, China) Recent Developments/Updates
- Table 65. Ktech Energy (Private, China) Basic Information, Manufacturing Base and Competitors
- Table 66. Ktech Energy (Private, China) Major Business
- Table 67. Ktech Energy (Private, China) MPPT Controllers Product and Services
- Table 68. Ktech Energy (Private, China) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Ktech Energy (Private, China) Recent Developments/Updates

Table 70. TopFence (Private, China) Basic Information, Manufacturing Base and Competitors

Table 71. TopFence (Private, China) Major Business

Table 72. TopFence (Private, China) MPPT Controllers Product and Services

Table 73. TopFence (Private, China) MPPT Controllers Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. TopFence (Private, China) Recent Developments/Updates

Table 75. Global MPPT Controllers Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 76. Global MPPT Controllers Revenue by Manufacturer (2021-2026) & (USD Million)

Table 77. Global MPPT Controllers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 78. Market Position of Manufacturers in MPPT Controllers, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 79. Head Office and MPPT Controllers Production Site of Key Manufacturer

Table 80. MPPT Controllers Market: Company Product Type Footprint

Table 81. MPPT Controllers Market: Company Product Application Footprint

Table 82. MPPT Controllers New Market Entrants and Barriers to Market Entry

Table 83. MPPT Controllers Mergers, Acquisition, Agreements, and Collaborations

Table 84. Global MPPT Controllers Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 85. Global MPPT Controllers Sales Quantity by Region (2021-2026) & (K Units)

Table 86. Global MPPT Controllers Sales Quantity by Region (2027-2032) & (K Units)

Table 87. Global MPPT Controllers Consumption Value by Region (2021-2026) & (USD Million)

Table 88. Global MPPT Controllers Consumption Value by Region (2027-2032) & (USD Million)

Table 89. Global MPPT Controllers Average Price by Region (2021-2026) & (US\$/Unit)

Table 90. Global MPPT Controllers Average Price by Region (2027-2032) & (US\$/Unit)

Table 91. Global MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Global MPPT Controllers Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Global MPPT Controllers Consumption Value by Type (2021-2026) & (USD Million)

Table 94. Global MPPT Controllers Consumption Value by Type (2027-2032) & (USD Million)

Table 95. Global MPPT Controllers Average Price by Type (2021-2026) & (US\$/Unit)

Table 96. Global MPPT Controllers Average Price by Type (2027-2032) & (US\$/Unit)

Table 97. Global MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 98. Global MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 99. Global MPPT Controllers Consumption Value by Application (2021-2026) & (USD Million)

Table 100. Global MPPT Controllers Consumption Value by Application (2027-2032) & (USD Million)

Table 101. Global MPPT Controllers Average Price by Application (2021-2026) & (US\$/Unit)

Table 102. Global MPPT Controllers Average Price by Application (2027-2032) & (US\$/Unit)

Table 103. North America MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 104. North America MPPT Controllers Sales Quantity by Type (2027-2032) & (K Units)

Table 105. North America MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 106. North America MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 107. North America MPPT Controllers Sales Quantity by Country (2021-2026) & (K Units)

Table 108. North America MPPT Controllers Sales Quantity by Country (2027-2032) & (K Units)

Table 109. North America MPPT Controllers Consumption Value by Country (2021-2026) & (USD Million)

Table 110. North America MPPT Controllers Consumption Value by Country (2027-2032) & (USD Million)

Table 111. Europe MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 112. Europe MPPT Controllers Sales Quantity by Type (2027-2032) & (K Units)

Table 113. Europe MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 114. Europe MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 115. Europe MPPT Controllers Sales Quantity by Country (2021-2026) & (K Units)

Table 116. Europe MPPT Controllers Sales Quantity by Country (2027-2032) & (K Units)

Table 117. Europe MPPT Controllers Consumption Value by Country (2021-2026) & (USD Million)

Table 118. Europe MPPT Controllers Consumption Value by Country (2027-2032) & (USD Million)

Table 119. Asia-Pacific MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 120. Asia-Pacific MPPT Controllers Sales Quantity by Type (2027-2032) & (K Units)

Table 121. Asia-Pacific MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 122. Asia-Pacific MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 123. Asia-Pacific MPPT Controllers Sales Quantity by Region (2021-2026) & (K Units)

Table 124. Asia-Pacific MPPT Controllers Sales Quantity by Region (2027-2032) & (K Units)

Table 125. Asia-Pacific MPPT Controllers Consumption Value by Region (2021-2026) & (USD Million)

Table 126. Asia-Pacific MPPT Controllers Consumption Value by Region (2027-2032) & (USD Million)

Table 127. South America MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 128. South America MPPT Controllers Sales Quantity by Type (2027-2032) & (K Units)

Table 129. South America MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 130. South America MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 131. South America MPPT Controllers Sales Quantity by Country (2021-2026) & (K Units)

Table 132. South America MPPT Controllers Sales Quantity by Country (2027-2032) & (K Units)

Table 133. South America MPPT Controllers Consumption Value by Country (2021-2026) & (USD Million)

Table 134. South America MPPT Controllers Consumption Value by Country (2027-2032) & (USD Million)

Table 135. Middle East & Africa MPPT Controllers Sales Quantity by Type (2021-2026) & (K Units)

Table 136. Middle East & Africa MPPT Controllers Sales Quantity by Type (2027-2032)

& (K Units)

Table 137. Middle East & Africa MPPT Controllers Sales Quantity by Application (2021-2026) & (K Units)

Table 138. Middle East & Africa MPPT Controllers Sales Quantity by Application (2027-2032) & (K Units)

Table 139. Middle East & Africa MPPT Controllers Sales Quantity by Country (2021-2026) & (K Units)

Table 140. Middle East & Africa MPPT Controllers Sales Quantity by Country (2027-2032) & (K Units)

Table 141. Middle East & Africa MPPT Controllers Consumption Value by Country (2021-2026) & (USD Million)

Table 142. Middle East & Africa MPPT Controllers Consumption Value by Country (2027-2032) & (USD Million)

Table 143. MPPT Controllers Raw Material

Table 144. Key Manufacturers of MPPT Controllers Raw Materials

Table 145. MPPT Controllers Typical Distributors

Table 146. MPPT Controllers Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. MPPT Controllers Picture

Figure 2. Global MPPT Controllers Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global MPPT Controllers Revenue Market Share by Type in 2025

Figure 4. Lead-Acid Batteries Examples

Figure 5. Lithium-Ion Batteries (Li-ion / LiFePO<sub>4</sub>) Examples

Figure 6. Others (NiMH, Gel, etc.) Examples

Figure 7. Global MPPT Controllers Revenue by Output Capacity, (USD Million), 2021 & 2025 & 2032

Figure 8. Global MPPT Controllers Revenue Market Share by Output Capacity in 2025

Figure 9. Low Capacity (50?A) Examples

Figure 12. Global MPPT Controllers Revenue by Installation Type, (USD Million), 2021 & 2025 & 2032

Figure 13. Global MPPT Controllers Revenue Market Share by Installation Type in 2025

Figure 14. Rooftop Solar Systems Examples

Figure 15. Ground-Mounted Solar Farms Examples

Figure 16. Portable / Mobile Solar Systems Examples

Figure 17. Global MPPT Controllers Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global MPPT Controllers Revenue Market Share by Application in 2025

Figure 19. Residential Solar Systems Examples

Figure 20. Commercial & Industrial Solar Systems Examples

Figure 21. Global MPPT Controllers Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 22. Global MPPT Controllers Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 23. Global MPPT Controllers Sales Quantity (2021-2032) & (K Units)

Figure 24. Global MPPT Controllers Price (2021-2032) & (US\$/Unit)

Figure 25. Global MPPT Controllers Sales Quantity Market Share by Manufacturer in 2025

Figure 26. Global MPPT Controllers Revenue Market Share by Manufacturer in 2025

Figure 27. Producer Shipments of MPPT Controllers by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 28. Top 3 MPPT Controllers Manufacturer (Revenue) Market Share in 2025

Figure 29. Top 6 MPPT Controllers Manufacturer (Revenue) Market Share in 2025

- Figure 30. Global MPPT Controllers Sales Quantity Market Share by Region (2021-2032)
- Figure 31. Global MPPT Controllers Consumption Value Market Share by Region (2021-2032)
- Figure 32. North America MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 33. Europe MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 34. Asia-Pacific MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 35. South America MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 36. Middle East & Africa MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 37. Global MPPT Controllers Sales Quantity Market Share by Type (2021-2032)
- Figure 38. Global MPPT Controllers Consumption Value Market Share by Type (2021-2032)
- Figure 39. Global MPPT Controllers Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 40. Global MPPT Controllers Sales Quantity Market Share by Application (2021-2032)
- Figure 41. Global MPPT Controllers Revenue Market Share by Application (2021-2032)
- Figure 42. Global MPPT Controllers Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 43. North America MPPT Controllers Sales Quantity Market Share by Type (2021-2032)
- Figure 44. North America MPPT Controllers Sales Quantity Market Share by Application (2021-2032)
- Figure 45. North America MPPT Controllers Sales Quantity Market Share by Country (2021-2032)
- Figure 46. North America MPPT Controllers Consumption Value Market Share by Country (2021-2032)
- Figure 47. United States MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 48. Canada MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 49. Mexico MPPT Controllers Consumption Value (2021-2032) & (USD Million)
- Figure 50. Europe MPPT Controllers Sales Quantity Market Share by Type (2021-2032)
- Figure 51. Europe MPPT Controllers Sales Quantity Market Share by Application (2021-2032)
- Figure 52. Europe MPPT Controllers Sales Quantity Market Share by Country (2021-2032)

Figure 53. Europe MPPT Controllers Consumption Value Market Share by Country (2021-2032)

Figure 54. Germany MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 55. France MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 56. United Kingdom MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 57. Russia MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 58. Italy MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 59. Asia-Pacific MPPT Controllers Sales Quantity Market Share by Type (2021-2032)

Figure 60. Asia-Pacific MPPT Controllers Sales Quantity Market Share by Application (2021-2032)

Figure 61. Asia-Pacific MPPT Controllers Sales Quantity Market Share by Region (2021-2032)

Figure 62. Asia-Pacific MPPT Controllers Consumption Value Market Share by Region (2021-2032)

Figure 63. China MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 64. Japan MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 65. South Korea MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 66. India MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 67. Southeast Asia MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 68. Australia MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 69. South America MPPT Controllers Sales Quantity Market Share by Type (2021-2032)

Figure 70. South America MPPT Controllers Sales Quantity Market Share by Application (2021-2032)

Figure 71. South America MPPT Controllers Sales Quantity Market Share by Country (2021-2032)

Figure 72. South America MPPT Controllers Consumption Value Market Share by Country (2021-2032)

Figure 73. Brazil MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 74. Argentina MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 75. Middle East & Africa MPPT Controllers Sales Quantity Market Share by Type (2021-2032)

Figure 76. Middle East & Africa MPPT Controllers Sales Quantity Market Share by Application (2021-2032)

Figure 77. Middle East & Africa MPPT Controllers Sales Quantity Market Share by Country (2021-2032)

Figure 78. Middle East & Africa MPPT Controllers Consumption Value Market Share by Country (2021-2032)

Figure 79. Turkey MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 80. Egypt MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 81. Saudi Arabia MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 82. South Africa MPPT Controllers Consumption Value (2021-2032) & (USD Million)

Figure 83. MPPT Controllers Market Drivers

Figure 84. MPPT Controllers Market Restraints

Figure 85. MPPT Controllers Market Trends

Figure 86. Porters Five Forces Analysis

Figure 87. Manufacturing Cost Structure Analysis of MPPT Controllers in 2025

Figure 88. Manufacturing Process Analysis of MPPT Controllers

Figure 89. MPPT Controllers Industrial Chain

Figure 90. Sales Channel: Direct to End-User vs Distributors

Figure 91. Direct Channel Pros & Cons

Figure 92. Indirect Channel Pros & Cons

Figure 93. Methodology

Figure 94. Research Process and Data Source

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