

# Global MPPT Solar Charge Controller Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global MPPT Solar Charge Controller market size is expected to reach \$ 2425 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global MPPT Solar Charge Controller reached approximately 8,374.1 K units, with an average global market price of around 175.6 USD/unit.

MPPT Solar Charge Controller refers to a core power management device in solar energy systems that adopts Maximum Power Point Tracking (MPPT) technology to dynamically track the maximum power point of solar panels in real time. It adjusts the output voltage and current of the panels to maximize the conversion efficiency of solar energy, stably charges the storage battery while preventing overcharging, over-discharging, and short-circuiting, and protects the safety and service life of the entire solar system. Unlike traditional PWM charge controllers, it has significant advantages in energy utilization efficiency, especially suitable for scenarios with variable light conditions such as household solar power generation, off-grid photovoltaic systems, and mobile solar devices.

Demand for MPPT Solar Charge Controllers is mainly driven by the global promotion of renewable energy policies, the rapid development of distributed photovoltaic power generation, the increasing popularity of off-grid solar systems in remote areas, and the growing demand for portable solar devices in outdoor activities and emergency scenarios. Additionally, the continuous decline in the cost of photovoltaic products and the strengthening of consumer awareness of energy conservation and environmental protection further boost market demand. Business opportunities lie in developing high-efficiency, low-cost products with multi-voltage adaptation capabilities; integrating intelligent functions such as remote monitoring and IoT connectivity to meet smart energy management needs; expanding applications in emerging fields such as solar street lamps, agricultural photovoltaic irrigation, and electric vehicle supplementary

power; promoting domestic substitution to break the monopoly of foreign brands; and exploring the after-sales service market of 'equipment + maintenance + technical support' to enhance user stickiness.

This report studies the global MPPT Solar Charge Controller production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global MPPT Solar Charge Controller total production and demand, 2021-2032, (K Units)

Global MPPT Solar Charge Controller total production value, 2021-2032, (USD Million)

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

Global MPPT Solar Charge Controller consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MPPT Solar Charge Controller domestic production, consumption, key domestic manufacturers and share

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

Global MPPT Solar Charge Controller production by Power Rating, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MPPT Solar Charge Controller production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MPPT Solar Charge Controller 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 Phocos, Morningstar, Epever, OutBack Power, Victron Energy, Studer Innotec, Steca, Schneider Electric, Renogy, Hehejin Industrial, 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 MPPT Solar Charge Controller 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 Power Rating, 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 MPPT Solar Charge Controller Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MPPT Solar Charge Controller Market, Segmentation by Power Rating:

Low-Power MPPT Controllers (<30A)

Medium-Power MPPT Controllers (30A-100A)

High-Power MPPT Controllers (>100A)

Global MPPT Solar Charge Controller Market, Segmentation by MPPT Algorithm Type:

Perturbation And Observation (P&O) MPPT Controllers

Incremental Conductance (IncCond) MPPT Controllers

Constant Voltage Tracking MPPT Controllers

## Global MPPT Solar Charge Controller Market, Segmentation by Product Configuration:

Standalone MPPT Controllers

Integrated Inverter-Charger MPPT Controllers

Modular MPPT Controllers

## Global MPPT Solar Charge Controller Market, Segmentation by Application:

Residential

Commercial and Industrial

Remote Area Power Supply

## Companies Profiled:

Phocos

Morningstar

Epever

OutBack Power

Victron Energy

Studer Innotec

Steca

Schneider Electric

Renogy

Hehejin Industrial

Amplec

Mile Solar

Mustpower

Microcare

Midnite

OLYS

OPTI-Solar

Xantrex

Sunchees

Shuori New Energy

Remote Power

Wuhan Wanpeng S&T

Wuhan BLKC Solar

Sunray Power

PUYANG SOLAR

Felicitysolar

Analogics Tech

Atess Power

GSL Electronics

LumiAx

Blue Sky Energy

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

#### 4.4 United States Based MPPT Solar Charge Controller Manufacturers and Market Share, 2021-2026

4.4.1 United States Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers MPPT Solar Charge Controller Production Value (2021-2026)

4.4.3 United States Based Manufacturers MPPT Solar Charge Controller Production (2021-2026)

#### 4.5 China Based MPPT Solar Charge Controller Manufacturers and Market Share

4.5.1 China Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers MPPT Solar Charge Controller Production Value (2021-2026)

4.5.3 China Based Manufacturers MPPT Solar Charge Controller Production (2021-2026)

#### 4.6 Rest of World Based MPPT Solar Charge Controller Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers MPPT Solar Charge Controller Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers MPPT Solar Charge Controller Production (2021-2026)

## 5 MARKET ANALYSIS BY POWER RATING

#### 5.1 World MPPT Solar Charge Controller Market Size Overview by Power Rating: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Power Rating

5.2.1 Low-Power MPPT Controllers (?30A)

5.2.2 Medium-Power MPPT Controllers (30A-100A)

5.2.3 High-Power MPPT Controllers (>100A)

#### 5.3 Market Segment by Power Rating

5.3.1 World MPPT Solar Charge Controller Production by Power Rating (2021-2032)

5.3.2 World MPPT Solar Charge Controller Production Value by Power Rating (2021-2032)

5.3.3 World MPPT Solar Charge Controller Average Price by Power Rating (2021-2032)

## **6 MARKET ANALYSIS BY MPPT ALGORITHM TYPE**

6.1 World MPPT Solar Charge Controller Market Size Overview by MPPT Algorithm Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by MPPT Algorithm Type

6.2.1 Perturbation And Observation (P&O) MPPT Controllers

6.2.2 Incremental Conductance (IncCond) MPPT Controllers

6.2.3 Constant Voltage Tracking MPPT Controllers

6.3 Market Segment by MPPT Algorithm Type

6.3.1 World MPPT Solar Charge Controller Production by MPPT Algorithm Type (2021-2032)

6.3.2 World MPPT Solar Charge Controller Production Value by MPPT Algorithm Type (2021-2032)

6.3.3 World MPPT Solar Charge Controller Average Price by MPPT Algorithm Type (2021-2032)

## **7 MARKET ANALYSIS BY PRODUCT CONFIGURATION**

7.1 World MPPT Solar Charge Controller Market Size Overview by Product Configuration: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Configuration

7.2.1 Standalone MPPT Controllers

7.2.2 Integrated Inverter-Charger MPPT Controllers

7.2.3 Modular MPPT Controllers

7.3 Market Segment by Product Configuration

7.3.1 World MPPT Solar Charge Controller Production by Product Configuration (2021-2032)

7.3.2 World MPPT Solar Charge Controller Production Value by Product Configuration (2021-2032)

7.3.3 World MPPT Solar Charge Controller Average Price by Product Configuration (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World MPPT Solar Charge Controller Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Residential

8.2.2 Commercial and Industrial

- 8.2.3 Remote Area Power Supply
- 8.3 Market Segment by Application
  - 8.3.1 World MPPT Solar Charge Controller Production by Application (2021-2032)
  - 8.3.2 World MPPT Solar Charge Controller Production Value by Application (2021-2032)
  - 8.3.3 World MPPT Solar Charge Controller Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

### 9.1 Phocos

- 9.1.1 Phocos Details
- 9.1.2 Phocos Major Business
- 9.1.3 Phocos MPPT Solar Charge Controller Product and Services
- 9.1.4 Phocos MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Phocos Recent Developments/Updates
- 9.1.6 Phocos Competitive Strengths & Weaknesses

### 9.2 Morningstar

- 9.2.1 Morningstar Details
- 9.2.2 Morningstar Major Business
- 9.2.3 Morningstar MPPT Solar Charge Controller Product and Services
- 9.2.4 Morningstar MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Morningstar Recent Developments/Updates
- 9.2.6 Morningstar Competitive Strengths & Weaknesses

### 9.3 Epever

- 9.3.1 Epever Details
- 9.3.2 Epever Major Business
- 9.3.3 Epever MPPT Solar Charge Controller Product and Services
- 9.3.4 Epever MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Epever Recent Developments/Updates
- 9.3.6 Epever Competitive Strengths & Weaknesses

### 9.4 OutBack Power

- 9.4.1 OutBack Power Details
- 9.4.2 OutBack Power Major Business
- 9.4.3 OutBack Power MPPT Solar Charge Controller Product and Services
- 9.4.4 OutBack Power MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.4.5 OutBack Power Recent Developments/Updates
- 9.4.6 OutBack Power Competitive Strengths & Weaknesses
- 9.5 Victron Energy
  - 9.5.1 Victron Energy Details
  - 9.5.2 Victron Energy Major Business
  - 9.5.3 Victron Energy MPPT Solar Charge Controller Product and Services
  - 9.5.4 Victron Energy MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Victron Energy Recent Developments/Updates
  - 9.5.6 Victron Energy Competitive Strengths & Weaknesses
- 9.6 Studer Innotec
  - 9.6.1 Studer Innotec Details
  - 9.6.2 Studer Innotec Major Business
  - 9.6.3 Studer Innotec MPPT Solar Charge Controller Product and Services
  - 9.6.4 Studer Innotec MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Studer Innotec Recent Developments/Updates
  - 9.6.6 Studer Innotec Competitive Strengths & Weaknesses
- 9.7 Steca
  - 9.7.1 Steca Details
  - 9.7.2 Steca Major Business
  - 9.7.3 Steca MPPT Solar Charge Controller Product and Services
  - 9.7.4 Steca MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Steca Recent Developments/Updates
  - 9.7.6 Steca Competitive Strengths & Weaknesses
- 9.8 Schneider Electric
  - 9.8.1 Schneider Electric Details
  - 9.8.2 Schneider Electric Major Business
  - 9.8.3 Schneider Electric MPPT Solar Charge Controller Product and Services
  - 9.8.4 Schneider Electric MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Schneider Electric Recent Developments/Updates
  - 9.8.6 Schneider Electric Competitive Strengths & Weaknesses
- 9.9 Renogy
  - 9.9.1 Renogy Details
  - 9.9.2 Renogy Major Business
  - 9.9.3 Renogy MPPT Solar Charge Controller Product and Services
  - 9.9.4 Renogy MPPT Solar Charge Controller Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.9.5 Renogy Recent Developments/Updates

9.9.6 Renogy Competitive Strengths & Weaknesses

9.10 Hehejin Industrial

9.10.1 Hehejin Industrial Details

9.10.2 Hehejin Industrial Major Business

9.10.3 Hehejin Industrial MPPT Solar Charge Controller Product and Services

9.10.4 Hehejin Industrial MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Hehejin Industrial Recent Developments/Updates

9.10.6 Hehejin Industrial Competitive Strengths & Weaknesses

9.11 Amplec

9.11.1 Amplec Details

9.11.2 Amplec Major Business

9.11.3 Amplec MPPT Solar Charge Controller Product and Services

9.11.4 Amplec MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Amplec Recent Developments/Updates

9.11.6 Amplec Competitive Strengths & Weaknesses

9.12 Mile Solar

9.12.1 Mile Solar Details

9.12.2 Mile Solar Major Business

9.12.3 Mile Solar MPPT Solar Charge Controller Product and Services

9.12.4 Mile Solar MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Mile Solar Recent Developments/Updates

9.12.6 Mile Solar Competitive Strengths & Weaknesses

9.13 Mustpower

9.13.1 Mustpower Details

9.13.2 Mustpower Major Business

9.13.3 Mustpower MPPT Solar Charge Controller Product and Services

9.13.4 Mustpower MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Mustpower Recent Developments/Updates

9.13.6 Mustpower Competitive Strengths & Weaknesses

9.14 Microcare

9.14.1 Microcare Details

9.14.2 Microcare Major Business

9.14.3 Microcare MPPT Solar Charge Controller Product and Services

9.14.4 Microcare MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Microcare Recent Developments/Updates

9.14.6 Microcare Competitive Strengths & Weaknesses

9.15 Midnite

9.15.1 Midnite Details

9.15.2 Midnite Major Business

9.15.3 Midnite MPPT Solar Charge Controller Product and Services

9.15.4 Midnite MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Midnite Recent Developments/Updates

9.15.6 Midnite Competitive Strengths & Weaknesses

9.16 OLYS

9.16.1 OLYS Details

9.16.2 OLYS Major Business

9.16.3 OLYS MPPT Solar Charge Controller Product and Services

9.16.4 OLYS MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 OLYS Recent Developments/Updates

9.16.6 OLYS Competitive Strengths & Weaknesses

9.17 OPTI-Solar

9.17.1 OPTI-Solar Details

9.17.2 OPTI-Solar Major Business

9.17.3 OPTI-Solar MPPT Solar Charge Controller Product and Services

9.17.4 OPTI-Solar MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 OPTI-Solar Recent Developments/Updates

9.17.6 OPTI-Solar Competitive Strengths & Weaknesses

9.18 Xantrex

9.18.1 Xantrex Details

9.18.2 Xantrex Major Business

9.18.3 Xantrex MPPT Solar Charge Controller Product and Services

9.18.4 Xantrex MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Xantrex Recent Developments/Updates

9.18.6 Xantrex Competitive Strengths & Weaknesses

9.19 Sunchees

9.19.1 Sunchees Details

9.19.2 Sunchees Major Business

- 9.19.3 Sunchees MPPT Solar Charge Controller Product and Services
- 9.19.4 Sunchees MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Sunchees Recent Developments/Updates
- 9.19.6 Sunchees Competitive Strengths & Weaknesses
- 9.20 Shuori New Energy
  - 9.20.1 Shuori New Energy Details
  - 9.20.2 Shuori New Energy Major Business
  - 9.20.3 Shuori New Energy MPPT Solar Charge Controller Product and Services
  - 9.20.4 Shuori New Energy MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.20.5 Shuori New Energy Recent Developments/Updates
  - 9.20.6 Shuori New Energy Competitive Strengths & Weaknesses
- 9.21 Remote Power
  - 9.21.1 Remote Power Details
  - 9.21.2 Remote Power Major Business
  - 9.21.3 Remote Power MPPT Solar Charge Controller Product and Services
  - 9.21.4 Remote Power MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.21.5 Remote Power Recent Developments/Updates
  - 9.21.6 Remote Power Competitive Strengths & Weaknesses
- 9.22 Wuhan Wanpeng S&T
  - 9.22.1 Wuhan Wanpeng S&T Details
  - 9.22.2 Wuhan Wanpeng S&T Major Business
  - 9.22.3 Wuhan Wanpeng S&T MPPT Solar Charge Controller Product and Services
  - 9.22.4 Wuhan Wanpeng S&T MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.22.5 Wuhan Wanpeng S&T Recent Developments/Updates
  - 9.22.6 Wuhan Wanpeng S&T Competitive Strengths & Weaknesses
- 9.23 Wuhan BLKC Solar
  - 9.23.1 Wuhan BLKC Solar Details
  - 9.23.2 Wuhan BLKC Solar Major Business
  - 9.23.3 Wuhan BLKC Solar MPPT Solar Charge Controller Product and Services
  - 9.23.4 Wuhan BLKC Solar MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.23.5 Wuhan BLKC Solar Recent Developments/Updates
  - 9.23.6 Wuhan BLKC Solar Competitive Strengths & Weaknesses
- 9.24 Sunray Power
  - 9.24.1 Sunray Power Details

- 9.24.2 Sunray Power Major Business
- 9.24.3 Sunray Power MPPT Solar Charge Controller Product and Services
- 9.24.4 Sunray Power MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.24.5 Sunray Power Recent Developments/Updates
- 9.24.6 Sunray Power Competitive Strengths & Weaknesses
- 9.25 PUYANG SOLAR
  - 9.25.1 PUYANG SOLAR Details
  - 9.25.2 PUYANG SOLAR Major Business
  - 9.25.3 PUYANG SOLAR MPPT Solar Charge Controller Product and Services
  - 9.25.4 PUYANG SOLAR MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.25.5 PUYANG SOLAR Recent Developments/Updates
  - 9.25.6 PUYANG SOLAR Competitive Strengths & Weaknesses
- 9.26 Felicitysolar
  - 9.26.1 Felicitysolar Details
  - 9.26.2 Felicitysolar Major Business
  - 9.26.3 Felicitysolar MPPT Solar Charge Controller Product and Services
  - 9.26.4 Felicitysolar MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.26.5 Felicitysolar Recent Developments/Updates
  - 9.26.6 Felicitysolar Competitive Strengths & Weaknesses
- 9.27 Analogics Tech
  - 9.27.1 Analogics Tech Details
  - 9.27.2 Analogics Tech Major Business
  - 9.27.3 Analogics Tech MPPT Solar Charge Controller Product and Services
  - 9.27.4 Analogics Tech MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.27.5 Analogics Tech Recent Developments/Updates
  - 9.27.6 Analogics Tech Competitive Strengths & Weaknesses
- 9.28 Atess Power
  - 9.28.1 Atess Power Details
  - 9.28.2 Atess Power Major Business
  - 9.28.3 Atess Power MPPT Solar Charge Controller Product and Services
  - 9.28.4 Atess Power MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.28.5 Atess Power Recent Developments/Updates
  - 9.28.6 Atess Power Competitive Strengths & Weaknesses
- 9.29 GSL Electronics

- 9.29.1 GSL Electronics Details
- 9.29.2 GSL Electronics Major Business
- 9.29.3 GSL Electronics MPPT Solar Charge Controller Product and Services
- 9.29.4 GSL Electronics MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.29.5 GSL Electronics Recent Developments/Updates
- 9.29.6 GSL Electronics Competitive Strengths & Weaknesses
- 9.30 Lumiax
  - 9.30.1 Lumiax Details
  - 9.30.2 Lumiax Major Business
  - 9.30.3 Lumiax MPPT Solar Charge Controller Product and Services
  - 9.30.4 Lumiax MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.30.5 Lumiax Recent Developments/Updates
  - 9.30.6 Lumiax Competitive Strengths & Weaknesses
- 9.31 Blue Sky Energy
  - 9.31.1 Blue Sky Energy Details
  - 9.31.2 Blue Sky Energy Major Business
  - 9.31.3 Blue Sky Energy MPPT Solar Charge Controller Product and Services
  - 9.31.4 Blue Sky Energy MPPT Solar Charge Controller Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.31.5 Blue Sky Energy Recent Developments/Updates
  - 9.31.6 Blue Sky Energy Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 MPPT Solar Charge Controller Industry Chain
- 10.2 MPPT Solar Charge Controller Upstream Analysis
  - 10.2.1 MPPT Solar Charge Controller Core Raw Materials
  - 10.2.2 Main Manufacturers of MPPT Solar Charge Controller Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 MPPT Solar Charge Controller Production Mode
- 10.6 MPPT Solar Charge Controller Procurement Model
- 10.7 MPPT Solar Charge Controller Industry Sales Model and Sales Channels
  - 10.7.1 MPPT Solar Charge Controller Sales Model
  - 10.7.2 MPPT Solar Charge Controller 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 MPPT Solar Charge Controller Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World MPPT Solar Charge Controller Production Value by Region (2021-2026) & (USD Million)
- Table 3. World MPPT Solar Charge Controller Production Value by Region (2027-2032) & (USD Million)
- Table 4. World MPPT Solar Charge Controller Production Value Market Share by Region (2021-2026)
- Table 5. World MPPT Solar Charge Controller Production Value Market Share by Region (2027-2032)
- Table 6. World MPPT Solar Charge Controller Production by Region (2021-2026) & (K Units)
- Table 7. World MPPT Solar Charge Controller Production by Region (2027-2032) & (K Units)
- Table 8. World MPPT Solar Charge Controller Production Market Share by Region (2021-2026)
- Table 9. World MPPT Solar Charge Controller Production Market Share by Region (2027-2032)
- Table 10. World MPPT Solar Charge Controller Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World MPPT Solar Charge Controller Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. MPPT Solar Charge Controller Major Market Trends
- Table 13. World MPPT Solar Charge Controller Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World MPPT Solar Charge Controller Consumption by Region (2021-2026) & (K Units)
- Table 15. World MPPT Solar Charge Controller Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World MPPT Solar Charge Controller Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key MPPT Solar Charge Controller Producers in 2025
- Table 18. World MPPT Solar Charge Controller Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key MPPT Solar Charge Controller Producers in 2025

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

Table 21. Global MPPT Solar Charge Controller Company Evaluation Quadrant

Table 22. World MPPT Solar Charge Controller Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and MPPT Solar Charge Controller Production Site of Key Manufacturer

Table 24. MPPT Solar Charge Controller Market: Company Product Type Footprint

Table 25. MPPT Solar Charge Controller Market: Company Product Application Footprint

Table 26. MPPT Solar Charge Controller Competitive Factors

Table 27. MPPT Solar Charge Controller New Entrant and Capacity Expansion Plans

Table 28. MPPT Solar Charge Controller Mergers & Acquisitions Activity

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

Table 30. United States VS China MPPT Solar Charge Controller Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China MPPT Solar Charge Controller Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers MPPT Solar Charge Controller Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers MPPT Solar Charge Controller Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers MPPT Solar Charge Controller Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers MPPT Solar Charge Controller Production Market Share (2021-2026)

Table 37. China Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers MPPT Solar Charge Controller Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers MPPT Solar Charge Controller Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers MPPT Solar Charge Controller Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers MPPT Solar Charge Controller Production Market Share (2021-2026)

Table 42. Rest of World Based MPPT Solar Charge Controller Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers MPPT Solar Charge Controller Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers MPPT Solar Charge Controller Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers MPPT Solar Charge Controller Production Market Share (2021-2026)

Table 47. World MPPT Solar Charge Controller Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032

Table 48. World MPPT Solar Charge Controller Production by Power Rating (2021-2026) & (K Units)

Table 49. World MPPT Solar Charge Controller Production by Power Rating (2027-2032) & (K Units)

Table 50. World MPPT Solar Charge Controller Production Value by Power Rating (2021-2026) & (USD Million)

Table 51. World MPPT Solar Charge Controller Production Value by Power Rating (2027-2032) & (USD Million)

Table 52. World MPPT Solar Charge Controller Average Price by Power Rating (2021-2026) & (US\$/Unit)

Table 53. World MPPT Solar Charge Controller Average Price by Power Rating (2027-2032) & (US\$/Unit)

Table 54. World MPPT Solar Charge Controller Production Value by MPPT Algorithm Type, (USD Million), 2021 & 2025 & 2032

Table 55. World MPPT Solar Charge Controller Production by MPPT Algorithm Type (2021-2026) & (K Units)

Table 56. World MPPT Solar Charge Controller Production by MPPT Algorithm Type (2027-2032) & (K Units)

Table 57. World MPPT Solar Charge Controller Production Value by MPPT Algorithm Type (2021-2026) & (USD Million)

Table 58. World MPPT Solar Charge Controller Production Value by MPPT Algorithm Type (2027-2032) & (USD Million)

Table 59. World MPPT Solar Charge Controller Average Price by MPPT Algorithm Type (2021-2026) & (US\$/Unit)

Table 60. World MPPT Solar Charge Controller Average Price by MPPT Algorithm Type

(2027-2032) & (US\$/Unit)

Table 61. World MPPT Solar Charge Controller Production Value by Product Configuration, (USD Million), 2021 & 2025 & 2032

Table 62. World MPPT Solar Charge Controller Production by Product Configuration (2021-2026) & (K Units)

Table 63. World MPPT Solar Charge Controller Production by Product Configuration (2027-2032) & (K Units)

Table 64. World MPPT Solar Charge Controller Production Value by Product Configuration (2021-2026) & (USD Million)

Table 65. World MPPT Solar Charge Controller Production Value by Product Configuration (2027-2032) & (USD Million)

Table 66. World MPPT Solar Charge Controller Average Price by Product Configuration (2021-2026) & (US\$/Unit)

Table 67. World MPPT Solar Charge Controller Average Price by Product Configuration (2027-2032) & (US\$/Unit)

Table 68. World MPPT Solar Charge Controller Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World MPPT Solar Charge Controller Production by Application (2021-2026) & (K Units)

Table 70. World MPPT Solar Charge Controller Production by Application (2027-2032) & (K Units)

Table 71. World MPPT Solar Charge Controller Production Value by Application (2021-2026) & (USD Million)

Table 72. World MPPT Solar Charge Controller Production Value by Application (2027-2032) & (USD Million)

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

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

Table 75. Phocos Basic Information, Manufacturing Base and Competitors

Table 76. Phocos Major Business

Table 77. Phocos MPPT Solar Charge Controller Product and Services

Table 78. Phocos MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Phocos Recent Developments/Updates

Table 80. Phocos Competitive Strengths & Weaknesses

Table 81. Morningstar Basic Information, Manufacturing Base and Competitors

Table 82. Morningstar Major Business

Table 83. Morningstar MPPT Solar Charge Controller Product and Services

Table 84. Morningstar MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Morningstar Recent Developments/Updates

Table 86. Morningstar Competitive Strengths & Weaknesses

Table 87. Epever Basic Information, Manufacturing Base and Competitors

Table 88. Epever Major Business

Table 89. Epever MPPT Solar Charge Controller Product and Services

Table 90. Epever MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Epever Recent Developments/Updates

Table 92. Epever Competitive Strengths & Weaknesses

Table 93. OutBack Power Basic Information, Manufacturing Base and Competitors

Table 94. OutBack Power Major Business

Table 95. OutBack Power MPPT Solar Charge Controller Product and Services

Table 96. OutBack Power MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. OutBack Power Recent Developments/Updates

Table 98. OutBack Power Competitive Strengths & Weaknesses

Table 99. Victron Energy Basic Information, Manufacturing Base and Competitors

Table 100. Victron Energy Major Business

Table 101. Victron Energy MPPT Solar Charge Controller Product and Services

Table 102. Victron Energy MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Victron Energy Recent Developments/Updates

Table 104. Victron Energy Competitive Strengths & Weaknesses

Table 105. Studer Innotec Basic Information, Manufacturing Base and Competitors

Table 106. Studer Innotec Major Business

Table 107. Studer Innotec MPPT Solar Charge Controller Product and Services

Table 108. Studer Innotec MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Studer Innotec Recent Developments/Updates

Table 110. Studer Innotec Competitive Strengths & Weaknesses

Table 111. Steca Basic Information, Manufacturing Base and Competitors

Table 112. Steca Major Business

Table 113. Steca MPPT Solar Charge Controller Product and Services

Table 114. Steca MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Steca Recent Developments/Updates

Table 116. Steca Competitive Strengths & Weaknesses

Table 117. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 118. Schneider Electric Major Business

Table 119. Schneider Electric MPPT Solar Charge Controller Product and Services

Table 120. Schneider Electric MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Schneider Electric Recent Developments/Updates

Table 122. Schneider Electric Competitive Strengths & Weaknesses

Table 123. Renogy Basic Information, Manufacturing Base and Competitors

Table 124. Renogy Major Business

Table 125. Renogy MPPT Solar Charge Controller Product and Services

Table 126. Renogy MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Renogy Recent Developments/Updates

Table 128. Renogy Competitive Strengths & Weaknesses

Table 129. Hehejin Industrial Basic Information, Manufacturing Base and Competitors

Table 130. Hehejin Industrial Major Business

Table 131. Hehejin Industrial MPPT Solar Charge Controller Product and Services

Table 132. Hehejin Industrial MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Hehejin Industrial Recent Developments/Updates

Table 134. Hehejin Industrial Competitive Strengths & Weaknesses

Table 135. Amplec Basic Information, Manufacturing Base and Competitors

Table 136. Amplec Major Business

Table 137. Amplec MPPT Solar Charge Controller Product and Services

Table 138. Amplec MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Amplec Recent Developments/Updates

Table 140. Amplec Competitive Strengths & Weaknesses

Table 141. Mile Solar Basic Information, Manufacturing Base and Competitors

Table 142. Mile Solar Major Business

Table 143. Mile Solar MPPT Solar Charge Controller Product and Services

Table 144. Mile Solar MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Mile Solar Recent Developments/Updates

Table 146. Mile Solar Competitive Strengths & Weaknesses

Table 147. Mustpower Basic Information, Manufacturing Base and Competitors

Table 148. Mustpower Major Business

Table 149. Mustpower MPPT Solar Charge Controller Product and Services

Table 150. Mustpower MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Mustpower Recent Developments/Updates

Table 152. Mustpower Competitive Strengths & Weaknesses

Table 153. Microcare Basic Information, Manufacturing Base and Competitors

Table 154. Microcare Major Business

Table 155. Microcare MPPT Solar Charge Controller Product and Services

Table 156. Microcare MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Microcare Recent Developments/Updates

Table 158. Microcare Competitive Strengths & Weaknesses

Table 159. Midnite Basic Information, Manufacturing Base and Competitors

Table 160. Midnite Major Business

Table 161. Midnite MPPT Solar Charge Controller Product and Services

Table 162. Midnite MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Midnite Recent Developments/Updates

Table 164. Midnite Competitive Strengths & Weaknesses

Table 165. OLYS Basic Information, Manufacturing Base and Competitors

Table 166. OLYS Major Business

Table 167. OLYS MPPT Solar Charge Controller Product and Services

Table 168. OLYS MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. OLYS Recent Developments/Updates

Table 170. OLYS Competitive Strengths & Weaknesses

Table 171. OPTI-Solar Basic Information, Manufacturing Base and Competitors

Table 172. OPTI-Solar Major Business

Table 173. OPTI-Solar MPPT Solar Charge Controller Product and Services

Table 174. OPTI-Solar MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. OPTI-Solar Recent Developments/Updates

Table 176. OPTI-Solar Competitive Strengths & Weaknesses

Table 177. Xantrex Basic Information, Manufacturing Base and Competitors

Table 178. Xantrex Major Business

Table 179. Xantrex MPPT Solar Charge Controller Product and Services

Table 180. Xantrex MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Xantrex Recent Developments/Updates

Table 182. Xantrex Competitive Strengths & Weaknesses

Table 183. Sunchees Basic Information, Manufacturing Base and Competitors

Table 184. Sunchees Major Business

Table 185. Sunchees MPPT Solar Charge Controller Product and Services

Table 186. Sunchees MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Sunchees Recent Developments/Updates

Table 188. Sunchees Competitive Strengths & Weaknesses

Table 189. Shuori New Energy Basic Information, Manufacturing Base and Competitors

Table 190. Shuori New Energy Major Business

Table 191. Shuori New Energy MPPT Solar Charge Controller Product and Services

Table 192. Shuori New Energy MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Shuori New Energy Recent Developments/Updates

Table 194. Shuori New Energy Competitive Strengths & Weaknesses

Table 195. Remote Power Basic Information, Manufacturing Base and Competitors

Table 196. Remote Power Major Business

Table 197. Remote Power MPPT Solar Charge Controller Product and Services

Table 198. Remote Power MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Remote Power Recent Developments/Updates

Table 200. Remote Power Competitive Strengths & Weaknesses

Table 201. Wuhan Wanpeng S&T Basic Information, Manufacturing Base and Competitors

Table 202. Wuhan Wanpeng S&T Major Business

Table 203. Wuhan Wanpeng S&T MPPT Solar Charge Controller Product and Services

Table 204. Wuhan Wanpeng S&T MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 205. Wuhan Wanpeng S&T Recent Developments/Updates

Table 206. Wuhan Wanpeng S&T Competitive Strengths & Weaknesses

Table 207. Wuhan BLKC Solar Basic Information, Manufacturing Base and Competitors

Table 208. Wuhan BLKC Solar Major Business

Table 209. Wuhan BLKC Solar MPPT Solar Charge Controller Product and Services

Table 210. Wuhan BLKC Solar MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Wuhan BLKC Solar Recent Developments/Updates

Table 212. Wuhan BLKC Solar Competitive Strengths & Weaknesses

Table 213. Sunray Power Basic Information, Manufacturing Base and Competitors

Table 214. Sunray Power Major Business

Table 215. Sunray Power MPPT Solar Charge Controller Product and Services

Table 216. Sunray Power MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Sunray Power Recent Developments/Updates

Table 218. Sunray Power Competitive Strengths & Weaknesses

Table 219. PUYANG SOLAR Basic Information, Manufacturing Base and Competitors

Table 220. PUYANG SOLAR Major Business

Table 221. PUYANG SOLAR MPPT Solar Charge Controller Product and Services

Table 222. PUYANG SOLAR MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. PUYANG SOLAR Recent Developments/Updates

Table 224. PUYANG SOLAR Competitive Strengths & Weaknesses

Table 225. Felicitysolar Basic Information, Manufacturing Base and Competitors

Table 226. Felicitysolar Major Business

Table 227. Felicitysolar MPPT Solar Charge Controller Product and Services

Table 228. Felicitysolar MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Felicitysolar Recent Developments/Updates

Table 230. Felicitysolar Competitive Strengths & Weaknesses

Table 231. Analogics Tech Basic Information, Manufacturing Base and Competitors

Table 232. Analogics Tech Major Business

Table 233. Analogics Tech MPPT Solar Charge Controller Product and Services

Table 234. Analogics Tech MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Analogics Tech Recent Developments/Updates

Table 236. Analogics Tech Competitive Strengths & Weaknesses

Table 237. Atess Power Basic Information, Manufacturing Base and Competitors

Table 238. Atess Power Major Business

Table 239. Atess Power MPPT Solar Charge Controller Product and Services

Table 240. Atess Power MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Atess Power Recent Developments/Updates

Table 242. Atess Power Competitive Strengths & Weaknesses

Table 243. GSL Electronics Basic Information, Manufacturing Base and Competitors

Table 244. GSL Electronics Major Business

Table 245. GSL Electronics MPPT Solar Charge Controller Product and Services

Table 246. GSL Electronics MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 247. GSL Electronics Recent Developments/Updates

Table 248. GSL Electronics Competitive Strengths & Weaknesses

Table 249. Lumiax Basic Information, Manufacturing Base and Competitors

Table 250. Lumiax Major Business

Table 251. Lumiax MPPT Solar Charge Controller Product and Services

Table 252. Lumiax MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 253. Lumiax Recent Developments/Updates

Table 254. Lumiax Competitive Strengths & Weaknesses

Table 255. Blue Sky Energy Basic Information, Manufacturing Base and Competitors

Table 256. Blue Sky Energy Major Business

Table 257. Blue Sky Energy MPPT Solar Charge Controller Product and Services

Table 258. Blue Sky Energy MPPT Solar Charge Controller Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 259. Blue Sky Energy Recent Developments/Updates

Table 260. Blue Sky Energy Competitive Strengths & Weaknesses

Table 261. Global Key Players of MPPT Solar Charge Controller Upstream (Raw Materials)

Table 262. Global MPPT Solar Charge Controller Typical Customers

Table 263. MPPT Solar Charge Controller Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. MPPT Solar Charge Controller Picture

Figure 2. World MPPT Solar Charge Controller Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World MPPT Solar Charge Controller Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World MPPT Solar Charge Controller Production (2021-2032) & (K Units)

Figure 5. World MPPT Solar Charge Controller Average Price (2021-2032) & (US\$/Unit)

Figure 6. World MPPT Solar Charge Controller Production Value Market Share by Region (2021-2032)

Figure 7. World MPPT Solar Charge Controller Production Market Share by Region (2021-2032)

Figure 8. North America MPPT Solar Charge Controller Production (2021-2032) & (K Units)

Figure 9. Europe MPPT Solar Charge Controller Production (2021-2032) & (K Units)

Figure 10. China MPPT Solar Charge Controller Production (2021-2032) & (K Units)

Figure 11. Japan MPPT Solar Charge Controller Production (2021-2032) & (K Units)

Figure 12. MPPT Solar Charge Controller Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 15. World MPPT Solar Charge Controller Consumption Market Share by Region (2021-2032)

Figure 16. United States MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 17. China MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 18. Europe MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 19. Japan MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 20. South Korea MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 21. ASEAN MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

Figure 22. India MPPT Solar Charge Controller Consumption (2021-2032) & (K Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for MPPT Solar Charge Controller Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for MPPT Solar Charge Controller Markets in 2025

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

Figure 27. United States VS China: MPPT Solar Charge Controller Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: MPPT Solar Charge Controller Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers MPPT Solar Charge Controller Production Market Share 2025

Figure 30. China Based Manufacturers MPPT Solar Charge Controller Production Market Share 2025

Figure 31. Rest of World Based Manufacturers MPPT Solar Charge Controller Production Market Share 2025

Figure 32. World MPPT Solar Charge Controller Production Value by Power Rating, (USD Million), 2021 & 2025 & 2032

Figure 33. World MPPT Solar Charge Controller Production Value Market Share by Power Rating in 2025

Figure 34. Low-Power MPPT Controllers (<30A)

Figure 35. Medium-Power MPPT Controllers (30A-100A)

Figure 36. High-Power MPPT Controllers (>100A)

Figure 37. World MPPT Solar Charge Controller Production Market Share by Power Rating (2021-2032)

Figure 38. World MPPT Solar Charge Controller Production Value Market Share by Power Rating (2021-2032)

Figure 39. World MPPT Solar Charge Controller Average Price by Power Rating (2021-2032) & (US\$/Unit)

Figure 40. World MPPT Solar Charge Controller Production Value by MPPT Algorithm Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World MPPT Solar Charge Controller Production Value Market Share by MPPT Algorithm Type in 2025

Figure 42. Perturbation And Observation (P&O) MPPT Controllers

Figure 43. Incremental Conductance (IncCond) MPPT Controllers

Figure 44. Constant Voltage Tracking MPPT Controllers

Figure 45. World MPPT Solar Charge Controller Production Market Share by MPPT Algorithm Type (2021-2032)

Figure 46. World MPPT Solar Charge Controller Production Value Market Share by MPPT Algorithm Type (2021-2032)

Figure 47. World MPPT Solar Charge Controller Average Price by MPPT Algorithm

Type (2021-2032) & (US\$/Unit)

Figure 48. World MPPT Solar Charge Controller Production Value by Product Configuration, (USD Million), 2021 & 2025 & 2032

Figure 49. World MPPT Solar Charge Controller Production Value Market Share by Product Configuration in 2025

Figure 50. Standalone MPPT Controllers

Figure 51. Integrated Inverter-Charger MPPT Controllers

Figure 52. Modular MPPT Controllers

Figure 53. World MPPT Solar Charge Controller Production Market Share by Product Configuration (2021-2032)

Figure 54. World MPPT Solar Charge Controller Production Value Market Share by Product Configuration (2021-2032)

Figure 55. World MPPT Solar Charge Controller Average Price by Product Configuration (2021-2032) & (US\$/Unit)

Figure 56. World MPPT Solar Charge Controller Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World MPPT Solar Charge Controller Production Value Market Share by Application in 2025

Figure 58. Residential

Figure 59. Commercial and Industrial

Figure 60. Remote Area Power Supply

Figure 61. World MPPT Solar Charge Controller Production Market Share by Application (2021-2032)

Figure 62. World MPPT Solar Charge Controller Production Value Market Share by Application (2021-2032)

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

Figure 64. MPPT Solar Charge Controller Industry Chain

Figure 65. MPPT Solar Charge Controller Procurement Model

Figure 66. MPPT Solar Charge Controller Sales Model

Figure 67. MPPT Solar Charge Controller Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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