

# Global Module Level Power Electronics (MLPE) Market Analysis and Forecast 2024-2030

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## Abstracts

### Summary

Module Level Power Electronics (MLPE), is the collective term for AC microinverter and DC Power Optimiser solar systems. Direct current (DC) power optimizers and microinverters (together known as module-level power electronics, or MLPE) are one of the fastest growing market segments in the solar industry.

According to APO Research, The global Module Level Power Electronics (MLPE) market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Module Level Power Electronics (MLPE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Module Level Power Electronics (MLPE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Module Level Power Electronics (MLPE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Module Level Power Electronics (MLPE) is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Module Level Power Electronics (MLPE) include Solar Edge, Enphase, Tigo/SMA, APSystems, i-Energy, Lead Solar, Chilicon, BM Solar and Sparq, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Module Level Power Electronics (MLPE) production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Module Level Power Electronics (MLPE) by region (region level and country level), by Company, by Type and by Application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Module Level Power Electronics (MLPE), capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Module Level Power Electronics (MLPE), also provides the consumption of main regions and countries. Of the upcoming market potential for Module Level Power Electronics (MLPE), and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Module Level Power Electronics (MLPE) sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Module Level Power Electronics (MLPE) market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Module Level Power Electronics (MLPE) sales, projected growth trends, production technology, application and end-user industry.

## Module Level Power Electronics (MLPE) segment by Company

Solar Edge

Enphase

Tigo/SMA

APSystems

i-Energy

Lead Solar

Chilicon

BM Solar

Sparq

## Module Level Power Electronics (MLPE) segment by Type

Power Optimizer

Microinverter

## Module Level Power Electronics (MLPE) segment by Application

Residential

Commercial

## Module Level Power Electronics (MLPE) segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

### Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Module Level Power Electronics (MLPE) market, and introduces in detail the market share, industry ranking,

competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Module Level Power Electronics (MLPE) and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Module Level Power Electronics (MLPE).

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (by type and by application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Module Level Power Electronics (MLPE) production/output of global and key producers (regions/countries). It provides a quantitative analysis of the production, and

development potential of each producer in the next six years.

Chapter 4: Sales (consumption), revenue of Module Level Power Electronics (MLPE) in global, regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space of each country in the world.

Chapter 5: Detailed analysis of Module Level Power Electronics (MLPE) manufacturers competitive landscape, price, sales, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides the analysis of various market segments by type, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7: Provides the analysis of various market segments by application, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8: Provides profiles of key manufacturers, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, Module Level Power Electronics (MLPE) sales, revenue, price, gross margin, and recent development, etc.

Chapter 9: North America (US & Canada) by type, by application and by country, sales, and revenue for each segment.

Chapter 10: Europe by type, by application and by country, sales, and revenue for each segment.

Chapter 11: China by type, by application, sales, and revenue for each segment.

Chapter 12: Asia (Excluding China) by type, by application and by region, sales, and revenue for each segment.

Chapter 13: Middle East, Africa, Latin America by type, by application and by country, sales, and revenue for each segment.

Chapter 14: Analysis of industrial chain, sales channel, key raw materials, distributors and customers.

Chapter 15: The main concluding insights of the report.



## Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Definition
- 1.2 Module Level Power Electronics (MLPE) Market by Type
  - 1.2.1 Global Module Level Power Electronics (MLPE) Market Size by Type, 2019 VS 2023 VS 2030
  - 1.2.2 Power Optimizer
  - 1.2.3 Microinverter
- 1.3 Module Level Power Electronics (MLPE) Market by Application
  - 1.3.1 Global Module Level Power Electronics (MLPE) Market Size by Application, 2019 VS 2023 VS 2030
  - 1.3.2 Residential
  - 1.3.3 Commercial
- 1.4 Assumptions and Limitations
- 1.5 Study Goals and Objectives

### **2 MODULE LEVEL POWER ELECTRONICS (MLPE) MARKET DYNAMICS**

- 2.1 Module Level Power Electronics (MLPE) Industry Trends
- 2.2 Module Level Power Electronics (MLPE) Industry Drivers
- 2.3 Module Level Power Electronics (MLPE) Industry Opportunities and Challenges
- 2.4 Module Level Power Electronics (MLPE) Industry Restraints

### **3 GLOBAL MODULE LEVEL POWER ELECTRONICS (MLPE) PRODUCTION OVERVIEW**

- 3.1 Global Module Level Power Electronics (MLPE) Production Capacity (2019-2030)
- 3.2 Global Module Level Power Electronics (MLPE) Production by Region: 2019 VS 2023 VS 2030
- 3.3 Global Module Level Power Electronics (MLPE) Production by Region
  - 3.3.1 Global Module Level Power Electronics (MLPE) Production by Region (2019-2024)
  - 3.3.2 Global Module Level Power Electronics (MLPE) Production by Region (2025-2030)
  - 3.3.3 Global Module Level Power Electronics (MLPE) Production Market Share by Region (2019-2030)
- 3.4 North America

- 3.5 Europe
- 3.6 China
- 3.7 Middle East
- 3.8 China Taiwan

## **4 GLOBAL MARKET GROWTH PROSPECTS**

- 4.1 Global Module Level Power Electronics (MLPE) Revenue Estimates and Forecasts (2019-2030)
- 4.2 Global Module Level Power Electronics (MLPE) Revenue by Region
  - 4.2.1 Global Module Level Power Electronics (MLPE) Revenue by Region: 2019 VS 2023 VS 2030
  - 4.2.2 Global Module Level Power Electronics (MLPE) Revenue by Region (2019-2024)
  - 4.2.3 Global Module Level Power Electronics (MLPE) Revenue by Region (2025-2030)
  - 4.2.4 Global Module Level Power Electronics (MLPE) Revenue Market Share by Region (2019-2030)
- 4.3 Global Module Level Power Electronics (MLPE) Sales Estimates and Forecasts 2019-2030
- 4.4 Global Module Level Power Electronics (MLPE) Sales by Region
  - 4.4.1 Global Module Level Power Electronics (MLPE) Sales by Region: 2019 VS 2023 VS 2030
  - 4.4.2 Global Module Level Power Electronics (MLPE) Sales by Region (2019-2024)
  - 4.4.3 Global Module Level Power Electronics (MLPE) Sales by Region (2025-2030)
  - 4.4.4 Global Module Level Power Electronics (MLPE) Sales Market Share by Region (2019-2030)
- 4.5 US & Canada
- 4.6 Europe
- 4.7 China
- 4.8 Asia (Excluding China)
- 4.9 Middle East, Africa and Latin America

## **5 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS**

- 5.1 Global Module Level Power Electronics (MLPE) Revenue by Manufacturers
  - 5.1.1 Global Module Level Power Electronics (MLPE) Revenue by Manufacturers (2019-2024)
  - 5.1.2 Global Module Level Power Electronics (MLPE) Revenue Market Share by Manufacturers (2019-2024)
  - 5.1.3 Global Module Level Power Electronics (MLPE) Manufacturers Revenue Share

Top 10 and Top 5 in 2023

5.2 Global Module Level Power Electronics (MLPE) Sales by Manufacturers

5.2.1 Global Module Level Power Electronics (MLPE) Sales by Manufacturers (2019-2024)

5.2.2 Global Module Level Power Electronics (MLPE) Sales Market Share by Manufacturers (2019-2024)

5.2.3 Global Module Level Power Electronics (MLPE) Manufacturers Sales Share Top 10 and Top 5 in 2023

5.3 Global Module Level Power Electronics (MLPE) Sales Price by Manufacturers (2019-2024)

5.4 Global Module Level Power Electronics (MLPE) Key Manufacturers Ranking, 2022 VS 2023 VS 2024

5.5 Global Module Level Power Electronics (MLPE) Key Manufacturers Manufacturing Sites & Headquarters

5.6 Global Module Level Power Electronics (MLPE) Manufacturers, Product Type & Application

5.7 Global Module Level Power Electronics (MLPE) Manufacturers Commercialization Time

5.8 Market Competitive Analysis

5.8.1 Global Module Level Power Electronics (MLPE) Market CR5 and HHI

5.8.2 2023 Module Level Power Electronics (MLPE) Tier 1, Tier 2, and Tier

## **6 MODULE LEVEL POWER ELECTRONICS (MLPE) MARKET BY TYPE**

6.1 Global Module Level Power Electronics (MLPE) Revenue by Type

6.1.1 Global Module Level Power Electronics (MLPE) Revenue by Type (2019 VS 2023 VS 2030)

6.1.2 Global Module Level Power Electronics (MLPE) Revenue by Type (2019-2030) & (US\$ Million)

6.1.3 Global Module Level Power Electronics (MLPE) Revenue Market Share by Type (2019-2030)

6.2 Global Module Level Power Electronics (MLPE) Sales by Type

6.2.1 Global Module Level Power Electronics (MLPE) Sales by Type (2019 VS 2023 VS 2030)

6.2.2 Global Module Level Power Electronics (MLPE) Sales by Type (2019-2030) & (M Watts)

6.2.3 Global Module Level Power Electronics (MLPE) Sales Market Share by Type (2019-2030)

6.3 Global Module Level Power Electronics (MLPE) Price by Type

## **7 MODULE LEVEL POWER ELECTRONICS (MLPE) MARKET BY APPLICATION**

### 7.1 Global Module Level Power Electronics (MLPE) Revenue by Application

7.1.1 Global Module Level Power Electronics (MLPE) Revenue by Application (2019 VS 2023 VS 2030)

7.1.2 Global Module Level Power Electronics (MLPE) Revenue by Application (2019-2030) & (US\$ Million)

7.1.3 Global Module Level Power Electronics (MLPE) Revenue Market Share by Application (2019-2030)

### 7.2 Global Module Level Power Electronics (MLPE) Sales by Application

7.2.1 Global Module Level Power Electronics (MLPE) Sales by Application (2019 VS 2023 VS 2030)

7.2.2 Global Module Level Power Electronics (MLPE) Sales by Application (2019-2030) & (M Watts)

7.2.3 Global Module Level Power Electronics (MLPE) Sales Market Share by Application (2019-2030)

### 7.3 Global Module Level Power Electronics (MLPE) Price by Application

## **8 COMPANY PROFILES**

### 8.1 Solar Edge

8.1.1 Solar Edge Company Information

8.1.2 Solar Edge Business Overview

8.1.3 Solar Edge Module Level Power Electronics (MLPE) Sales, Revenue, Price and Gross Margin (2019-2024)

8.1.4 Solar Edge Module Level Power Electronics (MLPE) Product Portfolio

8.1.5 Solar Edge Recent Developments

### 8.2 Enphase

8.2.1 Enphase Company Information

8.2.2 Enphase Business Overview

8.2.3 Enphase Module Level Power Electronics (MLPE) Sales, Revenue, Price and Gross Margin (2019-2024)

8.2.4 Enphase Module Level Power Electronics (MLPE) Product Portfolio

8.2.5 Enphase Recent Developments

### 8.3 Tigo/SMA

8.3.1 Tigo/SMA Company Information

8.3.2 Tigo/SMA Business Overview

8.3.3 Tigo/SMA Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.3.4 Tigo/SMA Module Level Power Electronics (MLPE) Product Portfolio

8.3.5 Tigo/SMA Recent Developments

## 8.4 APSystems

8.4.1 APSystems Company Information

8.4.2 APSystems Business Overview

8.4.3 APSystems Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.4.4 APSystems Module Level Power Electronics (MLPE) Product Portfolio

8.4.5 APSystems Recent Developments

## 8.5 i-Energy

8.5.1 i-Energy Company Information

8.5.2 i-Energy Business Overview

8.5.3 i-Energy Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.5.4 i-Energy Module Level Power Electronics (MLPE) Product Portfolio

8.5.5 i-Energy Recent Developments

## 8.6 Lead Solar

8.6.1 Lead Solar Company Information

8.6.2 Lead Solar Business Overview

8.6.3 Lead Solar Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.6.4 Lead Solar Module Level Power Electronics (MLPE) Product Portfolio

8.6.5 Lead Solar Recent Developments

## 8.7 Chilicon

8.7.1 Chilicon Company Information

8.7.2 Chilicon Business Overview

8.7.3 Chilicon Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.7.4 Chilicon Module Level Power Electronics (MLPE) Product Portfolio

8.7.5 Chilicon Recent Developments

## 8.8 BM Solar

8.8.1 BM Solar Company Information

8.8.2 BM Solar Business Overview

8.8.3 BM Solar Module Level Power Electronics (MLPE) Sales, Revenue, Price and

## Gross Margin (2019-2024)

8.8.4 BM Solar Module Level Power Electronics (MLPE) Product Portfolio

8.8.5 BM Solar Recent Developments

## 8.9 Sparq

- 8.9.1 Sparq Company Information
- 8.9.2 Sparq Business Overview
- 8.9.3 Sparq Module Level Power Electronics (MLPE) Sales, Revenue, Price and Gross Margin (2019-2024)
- 8.9.4 Sparq Module Level Power Electronics (MLPE) Product Portfolio
- 8.9.5 Sparq Recent Developments

## **9 NORTH AMERICA**

### 9.1 North America Module Level Power Electronics (MLPE) Market Size by Type

9.1.1 North America Module Level Power Electronics (MLPE) Revenue by Type (2019-2030)

9.1.2 North America Module Level Power Electronics (MLPE) Sales by Type (2019-2030)

9.1.3 North America Module Level Power Electronics (MLPE) Price by Type (2019-2030)

### 9.2 North America Module Level Power Electronics (MLPE) Market Size by Application

9.2.1 North America Module Level Power Electronics (MLPE) Revenue by Application (2019-2030)

9.2.2 North America Module Level Power Electronics (MLPE) Sales by Application (2019-2030)

9.2.3 North America Module Level Power Electronics (MLPE) Price by Application (2019-2030)

### 9.3 North America Module Level Power Electronics (MLPE) Market Size by Country

9.3.1 North America Module Level Power Electronics (MLPE) Revenue Growth Rate by Country (2019 VS 2023 VS 2030)

9.3.2 North America Module Level Power Electronics (MLPE) Sales by Country (2019 VS 2023 VS 2030)

9.3.3 North America Module Level Power Electronics (MLPE) Price by Country (2019-2030)

9.3.4 U.S.

9.3.5 Canada

## **10 EUROPE**

### 10.1 Europe Module Level Power Electronics (MLPE) Market Size by Type

10.1.1 Europe Module Level Power Electronics (MLPE) Revenue by Type (2019-2030)

10.1.2 Europe Module Level Power Electronics (MLPE) Sales by Type (2019-2030)

10.1.3 Europe Module Level Power Electronics (MLPE) Price by Type (2019-2030)

## 10.2 Europe Module Level Power Electronics (MLPE) Market Size by Application

10.2.1 Europe Module Level Power Electronics (MLPE) Revenue by Application (2019-2030)

10.2.2 Europe Module Level Power Electronics (MLPE) Sales by Application (2019-2030)

10.2.3 Europe Module Level Power Electronics (MLPE) Price by Application (2019-2030)

## 10.3 Europe Module Level Power Electronics (MLPE) Market Size by Country

10.3.1 Europe Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019 VS 2023 VS 2030)

10.3.2 Europe Module Level Power Electronics (MLPE) Sales by Country (2019 VS 2023 VS 2030)

10.3.3 Europe Module Level Power Electronics (MLPE) Price by Country (2019-2030)

10.3.4 Germany

10.3.5 France

10.3.6 U.K.

10.3.7 Italy

10.3.8 Russia

## 11 CHINA

### 11.1 China Module Level Power Electronics (MLPE) Market Size by Type

11.1.1 China Module Level Power Electronics (MLPE) Revenue by Type (2019-2030)

11.1.2 China Module Level Power Electronics (MLPE) Sales by Type (2019-2030)

11.1.3 China Module Level Power Electronics (MLPE) Price by Type (2019-2030)

### 11.2 China Module Level Power Electronics (MLPE) Market Size by Application

11.2.1 China Module Level Power Electronics (MLPE) Revenue by Application (2019-2030)

11.2.2 China Module Level Power Electronics (MLPE) Sales by Application (2019-2030)

11.2.3 China Module Level Power Electronics (MLPE) Price by Application (2019-2030)

## 12 ASIA (EXCLUDING CHINA)

### 12.1 Asia Module Level Power Electronics (MLPE) Market Size by Type

12.1.1 Asia Module Level Power Electronics (MLPE) Revenue by Type (2019-2030)

12.1.2 Asia Module Level Power Electronics (MLPE) Sales by Type (2019-2030)

12.1.3 Asia Module Level Power Electronics (MLPE) Price by Type (2019-2030)

## 12.2 Asia Module Level Power Electronics (MLPE) Market Size by Application

12.2.1 Asia Module Level Power Electronics (MLPE) Revenue by Application (2019-2030)

12.2.2 Asia Module Level Power Electronics (MLPE) Sales by Application (2019-2030)

12.2.3 Asia Module Level Power Electronics (MLPE) Price by Application (2019-2030)

## 12.3 Asia Module Level Power Electronics (MLPE) Market Size by Country

12.3.1 Asia Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019 VS 2023 VS 2030)

12.3.2 Asia Module Level Power Electronics (MLPE) Sales by Country (2019 VS 2023 VS 2030)

12.3.3 Asia Module Level Power Electronics (MLPE) Price by Country (2019-2030)

12.3.4 Japan

12.3.5 South Korea

12.3.6 India

12.3.7 Australia

12.3.8 China Taiwan

12.3.9 Southeast Asia

## 13 MIDDLE EAST, AFRICA AND LATIN AMERICA

### 13.1 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Market Size by Type

13.1.1 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Revenue by Type (2019-2030)

13.1.2 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Sales by Type (2019-2030)

13.1.3 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Price by Type (2019-2030)

### 13.2 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Market Size by Application

13.2.1 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Revenue by Application (2019-2030)

13.2.2 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Sales by Application (2019-2030)

13.2.3 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Price by Application (2019-2030)

### 13.3 Middle East, Africa and Latin America Module Level Power Electronics (MLPE) Market Size by Country

13.3.1 Middle East, Africa and Latin America Module Level Power Electronics (MLPE)



Revenue Grow Rate by Country (2019 VS 2023 VS 2030)

13.3.2 Middle East, Africa and Latin America Module Level Power Electronics (MLPE)

Sales by Country (2019 VS 2023 VS 2030)

13.3.3 Middle East, Africa and Latin America Module Level Power Electronics (MLPE)

Price by Country (2019-2030)

13.3.4 Mexico

13.3.5 Brazil

13.3.6 Israel

13.3.7 Argentina

13.3.8 Colombia

13.3.9 Turkey

13.3.10 Saudi Arabia

13.3.11 UAE

## **14 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

14.1 Module Level Power Electronics (MLPE) Value Chain Analysis

14.1.1 Module Level Power Electronics (MLPE) Key Raw Materials

14.1.2 Raw Materials Key Suppliers

14.1.3 Manufacturing Cost Structure

14.1.4 Module Level Power Electronics (MLPE) Production Mode & Process

14.2 Module Level Power Electronics (MLPE) Sales Channels Analysis

14.2.1 Direct Comparison with Distribution Share

14.2.2 Module Level Power Electronics (MLPE) Distributors

14.2.3 Module Level Power Electronics (MLPE) Customers

## **15 CONCLUDING INSIGHTS**

## **16 APPENDIX**

16.1 Reasons for Doing This Study

16.2 Research Methodology

16.3 Research Process

16.4 Authors List of This Report

16.5 Data Source

16.5.1 Secondary Sources

16.5.2 Primary Sources

16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Global Module Level Power Electronics (MLPE) Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030
- Table 2. Global Module Level Power Electronics (MLPE) Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030
- Table 3. Power Optimizer Major Manufacturers
- Table 4. Microinverter Major Manufacturers
- Table 5. Global Module Level Power Electronics (MLPE) Market Size Growth Rate by Application (US\$ Million), 2019 VS 2023 VS 2030
- Table 6. Residential Major Manufacturers
- Table 7. Commercial Major Manufacturers
- Table 8. Module Level Power Electronics (MLPE) Industry Trends
- Table 9. Module Level Power Electronics (MLPE) Industry Drivers
- Table 10. Module Level Power Electronics (MLPE) Industry Opportunities and Challenges
- Table 11. Module Level Power Electronics (MLPE) Industry Restraints
- Table 12. Global Module Level Power Electronics (MLPE) Production Growth Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (M Watts)
- Table 13. Global Module Level Power Electronics (MLPE) Production by Region (2019-2024) & (M Watts)
- Table 14. Global Module Level Power Electronics (MLPE) Production by Region (2025-2030) & (M Watts)
- Table 15. Global Module Level Power Electronics (MLPE) Production Market Share by Region (2019-2024)
- Table 16. Global Module Level Power Electronics (MLPE) Production Market Share by Region (2025-2030)
- Table 17. Global Module Level Power Electronics (MLPE) Revenue Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Table 18. Global Module Level Power Electronics (MLPE) Revenue by Region (2019-2024) & (US\$ Million)
- Table 19. Global Module Level Power Electronics (MLPE) Revenue by Region (2025-2030) & (US\$ Million)
- Table 20. Global Module Level Power Electronics (MLPE) Revenue Market Share by Region (2019-2024)
- Table 21. Global Module Level Power Electronics (MLPE) Revenue Market Share by Region (2025-2030)

Table 22. Global Module Level Power Electronics (MLPE) Sales Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (M Watts)

Table 23. Global Module Level Power Electronics (MLPE) Sales by Region (2019-2024) & (M Watts)

Table 24. Global Module Level Power Electronics (MLPE) Sales by Region (2025-2030) & (M Watts)

Table 25. Global Module Level Power Electronics (MLPE) Sales Market Share by Region (2019-2024)

Table 26. Global Module Level Power Electronics (MLPE) Sales Market Share by Region (2025-2030)

Table 27. Global Module Level Power Electronics (MLPE) Revenue by Manufacturers (US\$ Million) & (2019-2024)

Table 28. Global Module Level Power Electronics (MLPE) Revenue Market Share by Manufacturers (2019-2024)

Table 29. Global Module Level Power Electronics (MLPE) Sales by Manufacturers (US\$ Million) & (2019-2024)

Table 30. Global Module Level Power Electronics (MLPE) Sales Market Share by Manufacturers (2019-2024)

Table 31. Global Module Level Power Electronics (MLPE) Sales Price (USD/Watt) of Manufacturers (2019-2024)

Table 32. Global Module Level Power Electronics (MLPE) Key Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 33. Global Module Level Power Electronics (MLPE) Key Manufacturers Manufacturing Sites & Headquarters

Table 34. Global Module Level Power Electronics (MLPE) Manufacturers, Product Type & Application

Table 35. Global Module Level Power Electronics (MLPE) Manufacturers Commercialization Time

Table 36. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 37. Global Module Level Power Electronics (MLPE) by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)

Table 38. Global Module Level Power Electronics (MLPE) Revenue by Type 2019 VS 2023 VS 2030 (US\$ Million)

Table 39. Global Module Level Power Electronics (MLPE) Revenue by Type (2019-2024) & (US\$ Million)

Table 40. Global Module Level Power Electronics (MLPE) Revenue by Type (2025-2030) & (US\$ Million)

Table 41. Global Module Level Power Electronics (MLPE) Revenue Market Share by Type (2019-2024)

Table 42. Global Module Level Power Electronics (MLPE) Revenue Market Share by Type (2025-2030)

Table 43. Global Module Level Power Electronics (MLPE) Sales by Type 2019 VS 2023 VS 2030 (M Watts)

Table 44. Global Module Level Power Electronics (MLPE) Sales by Type (2019-2024) & (M Watts)

Table 45. Global Module Level Power Electronics (MLPE) Sales by Type (2025-2030) & (M Watts)

Table 46. Global Module Level Power Electronics (MLPE) Sales Market Share by Type (2019-2024)

Table 47. Global Module Level Power Electronics (MLPE) Sales Market Share by Type (2025-2030)

Table 48. Global Module Level Power Electronics (MLPE) Price by Type (2019-2024) & (USD/Watt)

Table 49. Global Module Level Power Electronics (MLPE) Price by Type (2025-2030) & (USD/Watt)

Table 50. Global Module Level Power Electronics (MLPE) Revenue by Application 2019 VS 2023 VS 2030 (US\$ Million)

Table 51. Global Module Level Power Electronics (MLPE) Revenue by Application (2019-2024) & (US\$ Million)

Table 52. Global Module Level Power Electronics (MLPE) Revenue by Application (2025-2030) & (US\$ Million)

Table 53. Global Module Level Power Electronics (MLPE) Revenue Market Share by Application (2019-2024)

Table 54. Global Module Level Power Electronics (MLPE) Revenue Market Share by Application (2025-2030)

Table 55. Global Module Level Power Electronics (MLPE) Sales by Application 2019 VS 2023 VS 2030 (M Watts)

Table 56. Global Module Level Power Electronics (MLPE) Sales by Application (2019-2024) & (M Watts)

Table 57. Global Module Level Power Electronics (MLPE) Sales by Application (2025-2030) & (M Watts)

Table 58. Global Module Level Power Electronics (MLPE) Sales Market Share by Application (2019-2024)

Table 59. Global Module Level Power Electronics (MLPE) Sales Market Share by Application (2025-2030)

Table 60. Global Module Level Power Electronics (MLPE) Price by Application (2019-2024) & (USD/Watt)

Table 61. Global Module Level Power Electronics (MLPE) Price by Application

(2025-2030) & (USD/Watt)

Table 62. Solar Edge Company Information

Table 63. Solar Edge Business Overview

Table 64. Solar Edge Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 65. Solar Edge Module Level Power Electronics (MLPE) Product Portfolio

Table 66. Solar Edge Recent Development

Table 67. Enphase Company Information

Table 68. Enphase Business Overview

Table 69. Enphase Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 70. Enphase Module Level Power Electronics (MLPE) Product Portfolio

Table 71. Enphase Recent Development

Table 72. Tigo/SMA Company Information

Table 73. Tigo/SMA Business Overview

Table 74. Tigo/SMA Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 75. Tigo/SMA Module Level Power Electronics (MLPE) Product Portfolio

Table 76. Tigo/SMA Recent Development

Table 77. APSystems Company Information

Table 78. APSystems Business Overview

Table 79. APSystems Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 80. APSystems Module Level Power Electronics (MLPE) Product Portfolio

Table 81. APSystems Recent Development

Table 82. i-Energy Company Information

Table 83. i-Energy Business Overview

Table 84. i-Energy Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 85. i-Energy Module Level Power Electronics (MLPE) Product Portfolio

Table 86. i-Energy Recent Development

Table 87. Lead Solar Company Information

Table 88. Lead Solar Business Overview

Table 89. Lead Solar Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)

Table 90. Lead Solar Module Level Power Electronics (MLPE) Product Portfolio

Table 91. Lead Solar Recent Development

Table 92. Chilicon Company Information

Table 93. Chilicon Business Overview

- Table 94. Chilicon Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)
- Table 95. Chilicon Module Level Power Electronics (MLPE) Product Portfolio
- Table 96. Chilicon Recent Development
- Table 97. BM Solar Company Information
- Table 98. BM Solar Business Overview
- Table 99. BM Solar Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)
- Table 100. BM Solar Module Level Power Electronics (MLPE) Product Portfolio
- Table 101. BM Solar Recent Development
- Table 102. Sparq Company Information
- Table 103. Sparq Business Overview
- Table 104. Sparq Module Level Power Electronics (MLPE) Sales (M Watts), Revenue (US\$ Million), Price (USD/Watt) and Gross Margin (2019-2024)
- Table 105. Sparq Module Level Power Electronics (MLPE) Product Portfolio
- Table 106. Sparq Recent Development
- Table 107. North America Module Level Power Electronics (MLPE) Revenue by Type (2019-2024) & (US\$ Million)
- Table 108. North America Module Level Power Electronics (MLPE) Revenue by Type (2025-2030) & (US\$ Million)
- Table 109. North America Module Level Power Electronics (MLPE) Sales by Type (2019-2024) & (M Watts)
- Table 110. North America Module Level Power Electronics (MLPE) Sales by Type (2025-2030) & (M Watts)
- Table 111. North America Module Level Power Electronics (MLPE) Sales Price by Type (2019-2024) & (USD/Watt)
- Table 112. North America Module Level Power Electronics (MLPE) Sales Price by Type (2025-2030) & (USD/Watt)
- Table 113. North America Module Level Power Electronics (MLPE) Revenue by Application (2019-2024) & (US\$ Million)
- Table 114. North America Module Level Power Electronics (MLPE) Revenue by Application (2025-2030) & (US\$ Million)
- Table 115. North America Module Level Power Electronics (MLPE) Sales by Application (2019-2024) & (M Watts)
- Table 116. North America Module Level Power Electronics (MLPE) Sales by Application (2025-2030) & (M Watts)
- Table 117. North America Module Level Power Electronics (MLPE) Sales Price by Application (2019-2024) & (USD/Watt)
- Table 118. North America Module Level Power Electronics (MLPE) Sales Price by

Application (2025-2030) & (USD/Watt)

Table 119. North America Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 120. North America Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 121. North America Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2025-2030) & (US\$ Million)

Table 122. North America Module Level Power Electronics (MLPE) Sales by Country (2019 VS 2023 VS 2030) & (M Watts)

Table 123. North America Module Level Power Electronics (MLPE) Sales by Country (2019-2024) & (M Watts)

Table 124. North America Module Level Power Electronics (MLPE) Sales by Country (2025-2030) & (M Watts)

Table 125. North America Module Level Power Electronics (MLPE) Sales Price by Country (2019-2024) & (USD/Watt)

Table 126. North America Module Level Power Electronics (MLPE) Sales Price by Country (2025-2030) & (USD/Watt)

Table 127. U.S. Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 128. Canada Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 129. Europe Module Level Power Electronics (MLPE) Revenue by Type (2019-2024) & (US\$ Million)

Table 130. Europe Module Level Power Electronics (MLPE) Revenue by Type (2025-2030) & (US\$ Million)

Table 131. Europe Module Level Power Electronics (MLPE) Sales by Type (2019-2024) & (M Watts)

Table 132. Europe Module Level Power Electronics (MLPE) Sales by Type (2025-2030) & (M Watts)

Table 133. Europe Module Level Power Electronics (MLPE) Sales Price by Type (2019-2024) & (USD/Watt)

Table 134. Europe Module Level Power Electronics (MLPE) Sales Price by Type (2025-2030) & (USD/Watt)

Table 135. Europe Module Level Power Electronics (MLPE) Revenue by Application (2019-2024) & (US\$ Million)

Table 136. Europe Module Level Power Electronics (MLPE) Revenue by Application (2025-2030) & (US\$ Million)

Table 137. Europe Module Level Power Electronics (MLPE) Sales by Application (2019-2024) & (M Watts)

Table 138. Europe Module Level Power Electronics (MLPE) Sales by Application (2025-2030) & (M Watts)

Table 139. Europe Module Level Power Electronics (MLPE) Sales Price by Application (2019-2024) & (USD/Watt)

Table 140. Europe Module Level Power Electronics (MLPE) Sales Price by Application (2025-2030) & (USD/Watt)

Table 141. Europe Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 142. Europe Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 143. Europe Module Level Power Electronics (MLPE) Revenue Grow Rate by Country (2025-2030) & (US\$ Million)

Table 144. Europe Module Level Power Electronics (MLPE) Sales by Country (2019 VS 2023 VS 2030) & (M Watts)

Table 145. Europe Module Level Power Electronics (MLPE) Sales by Country (2019-2024) & (M Watts)

Table 146. Europe Module Level Power Electronics (MLPE) Sales by Country (2025-2030) & (M Watts)

Table 147. Europe Module Level Power Electronics (MLPE) Sales Price by Country (2019-2024) & (USD/Watt)

Table 148. Europe Module Level Power Electronics (MLPE) Sales Price by Country (2025-2030) & (USD/Watt)

Table 149. Germany Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 150. France Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 151. Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 152. Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 153. Module Level Power Electronics (MLPE) Revenue (2019-2030) & (US\$ Million)

Table 154. China Module Level Power Electronics (MLPE) Revenue by Type (2019-2024) & (US\$ Million)

Table 155. China Module Level Power Electronics (MLPE) Revenue by Type (2025-2030) & (US\$ Million)

Table 156. China Module Level Power Electronics (MLPE) Sales by Type (2019-2024) & (M Watts)

Table 157. China Module Level Power Electronics (MLPE) Sales by Type (2025-2030)



& (M Watts)

Table 158. China Module Level Power Electronics (MLPE) Sales Price by Type (2019-2024) & (USD/Watt)

Table 159. China Module Level Power Electronics (MLPE) Sales Price by Type (2025-2030) & (USD/Watt)

Table 160. China Module Level Power Electronics (MLPE) Revenue by Application (2019-2024) & (US\$ Million)

Table 161. China Module Level Power Electronics (MLPE) Revenue by Application (2025-2030) & (US\$ Million)

Table 162. China Module Level Power Electronics (MLPE) Sales by Application (2019-2024) & (M Watts)

Table 163. China Module Level Power Electronics (MLPE) Sales by Application (2025-2030) & (M Watts)

Table 164. China Module Level Power Electronics (MLPE) Sales Price by Application (2019-2024) & (USD/Watt)

Table 165. China Module Level Power Electronics (MLPE) Sales Price by Application (2025-2030) & (USD/Watt)

Table 166. Asia Module Level Power Electronics (MLPE) Revenue by Type (2019-2024) & (US\$ Million)

Table 167. Asia Module Level Power Electronics (MLPE) Revenue by Type (2025-2030) & (US\$ Million)

Table 168. Asia Module Level Power Electronics (MLPE) Sales by Type (2019-2024) & (M Watts)

Table 169. Asia Module Level Power Electronics (MLPE) Sales by Type (2025-2030) & (M Watts)

Table 170. Asia Module Level Power Electronics (MLPE) Sales Price by Type (2019-2024) & (USD/Watt)

Table 171. Asia Module Level

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