

Solar PV Inverter Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/S08E7A93254EN.html>

Date: March 2023

Pages: 110

Price: US\$ 2,499.00 (Single User License)

ID: S08E7A93254EN

Abstracts

Market Overview:

The global solar PV inverter market size reached US\$ 7.9 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 10.1 Billion by 2028, exhibiting a growth rate (CAGR) of 4.6% during 2023-2028.

A solar inverter is one of the most essential elements of a solar electric power plant. Often considered as the brain of the system, its basic function is to convert direct current (DC) from solar panels to alternating current (AC). Apart from this, solar inverters help in maximizing electricity production by constantly varying the resistance (load) as well as ensuring compliance with regulations about feeding electricity into the grid. Some of the other capabilities of these inverters include optimizing power, managing temperature, and controlling and monitoring all parameters, yields, and operational data of the power plant. At present, solar PV inverters majorly find applications in the utilities and industrial sectors.

Global Solar PV Inverter Market Trends:

The global demand of solar inverters has been rising robustly over the last few years. A key factor catalyzing this demand is the increasing environmental concerns regarding greenhouse emissions and the importance of solar and other renewable energy sources to reduce these emissions. Moreover, the increasing cost of fossil fuels is also making solar power a more economical energy source. Additionally, the prices of solar inverters have also declined in recent years making them more affordable to the general population. This has resulted in a strong growth in the installation of solar electric

systems across both developed and developing regions across the globe. Other factors driving this market include the need for rural electrification, technological advancements, increasing government support, rising investments in renewable energy, etc.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global solar PV inverter market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on technology, voltage and application.

Breakup by Technology:

- Central Inverters
- String Inverters
- Microinverters
- Others

Based on the technology, the market has been segmented into central inverter, string inverter, microinverter and others. String inverters currently represent the biggest segment.

Breakup by Voltage:

- 1,000 - 1,499 V
- > 1,500 V

Based on the voltage, the market has been segmented into 1,500 V.

Breakup by Application:

- Utility Scale
- Residential Scale
- Small Commercial Scale
- Large Commercial Scale
- Industrial Scale

On the basis of application, the market has been segregated into utility scale, residential scale, small commercial scale, large commercial scale and industrial scale.

Breakup by Region:

Asia Pacific

Europe

North America

Middle East and Africa

Latin America

Region-wise, Asia Pacific exhibits a clear dominance in the global solar PV inverter market. Other major regions include Europe, North America, Middle East and Africa and Latin America.

Competitive Landscape:

The competitive landscape of the market has also been examined with some of the key players being ABB Ltd, Schneider Electric SE, Siemens AG, Mitsubishi Electric Corporation, Omron Corporation, General Electric Company, SMA Solar Technology AG, Delta Energy Systems Inc., Enphase Energy Inc., SolarEdge Technologies Inc., Huawei Technologies Co. Ltd, Kstar New Energy Co. Ltd, Sineng Electric Co. Ltd, Sungrow Power Supply Co Ltd, Tabuchi Electric Co. Ltd, TBEA Sunoasis Co. Ltd and Toshiba Corporation.

Key Questions Answered in This Report:

How has the global solar PV inverter market performed so far and how will it perform in the coming years?

What are the key regional markets in the global solar PV inverter industry?

What has been the impact of COVID-19 on the global solar PV inverter market?

What is the breakup of the global solar PV inverter market on the basis of technology?

What is the breakup of the global solar PV inverter market on the basis of voltage?

What is the breakup of the global solar PV inverter market on the basis of application?

What are the various stages in the value chain of the global solar PV inverter market?

What are the key driving factors and challenges in the global solar PV inverter market?

What is the structure of the global solar PV inverter market and who are the key players?

What is the degree of competition in the global solar PV inverter market?

How are solar PV inverters manufactured?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL SOLAR PV INVERTER MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Technology
- 5.5 Market Breakup by Voltage
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by Region
- 5.8 Market Forecast

6 MARKET BREAKUP BY TECHNOLOGY

- 6.1 Central Inverters
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast

6.2 String Inverters

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 Microinverters

6.3.1 Market Trends

6.3.2 Market Forecast

6.4 Others

6.4.1 Market Trends

6.4.2 Market Forecast

7 MARKET BREAKUP BY VOLTAGE

7.1 7.1.1 Market Trends

7.1.2 Market Forecast

7.2 1,000 - 1,499 V

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 > 1,500 V

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY APPLICATION

8.1 Utility Scale

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Residential Scale

8.2.1 Market Trends

8.2.2 Market Forecast

8.3 Small Commercial Scale

8.3.1 Market Trends

8.3.2 Market Forecast

8.4 Large Commercial Scale

8.4.1 Market Trends

8.4.2 Market Forecast

8.5 Industrial Scale

8.5.1 Market Trends

8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 Asia Pacific

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Europe

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 North America

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Middle East and Africa

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Latin America

9.5.1 Market Trends

9.5.2 Market Forecast

10 GLOBAL SOLAR PV INVERTER INDUSTRY: SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 GLOBAL SOLAR PV INVERTER INDUSTRY: VALUE CHAIN ANALYSIS

11.1 Overview

11.2 Research and Development

11.3 Raw Material Procurement

11.4 Manufacturing

11.5 Marketing

11.6 Distribution

11.7 End-Use

12 GLOBAL SOLAR PV INVERTER INDUSTRY: PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 GLOBAL SOLAR PV INVERTER INDUSTRY: PRICE ANALYSIS

- 13.1 Price Indicators
- 13.2 Price Structure
- 13.3 Margin Analysis

14 SOLAR PV INVERTER MANUFACTURING PROCESS

- 14.1 Product Overview
- 14.2 Raw Material Requirements
- 14.3 Manufacturing Process
- 14.4 Key Success and Risk Factors

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 ABB Ltd
 - 15.3.2 Schneider Electric SE
 - 15.3.3 Siemens AG
 - 15.3.4 Mitsubishi Electric Corporation
 - 15.3.5 Omron Corporation
 - 15.3.6 General Electric Company
 - 15.3.7 SMA Solar Technology AG
 - 15.3.8 Delta Energy Systems Inc.
 - 15.3.9 Enphase Energy Inc.
 - 15.3.10 SolarEdge Technologies Inc.
 - 15.3.11 Huawei Technologies Co. Ltd
 - 15.3.12 Kstar New Energy Co. Ltd
 - 15.3.13 Sineng Electric Co. Ltd
 - 15.3.14 Sungrow Power Supply Co Ltd

15.3.15 Tabuchi Electric Co. Ltd

15.3.16 TBEA Sunoasis Co. Ltd

15.3.17 Toshiba Corporation

List Of Tables

LIST OF TABLES

Table 1: Global: Solar PV Inverter Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Solar PV Inverter Market Forecast: Breakup by Technology (in Million US\$), 2023-2028

Table 3: Global: Solar PV Inverter Market Forecast: Breakup by Voltage (in Million US\$), 2023-2028

Table 4: Global: Solar PV Inverter Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 5: Global: Solar PV Inverter Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Solar PV Inverter: Raw Material Requirements

Table 7: Global: Solar PV Inverter Market: Competitive Structure

Table 8: Global: Solar PV Inverter Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Solar PV Inverter Market: Major Drivers and Challenges

Figure 2: Global: Solar PV Inverter Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Solar PV Inverter Market: Breakup by Technology (in %), 2022

Figure 4: Global: Solar PV Inverter Market: Breakup by Voltage (in %), 2022

Figure 5: Global: Solar PV Inverter Market: Breakup by Application (in %), 2022

Figure 6: Global: Solar PV Inverter Market: Breakup by Region (in %), 2022

Figure 7: Global: Solar PV Inverter Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 8: Global: Solar PV Inverter Industry: SWOT Analysis

Figure 9: Global: Solar PV Inverter Industry: Value Chain Analysis

Figure 10: Global: Solar PV Inverter Industry: Porter's Five Forces Analysis

Figure 11: Global: Solar PV Inverter (Central Inverters) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: Solar PV Inverter (Central Inverters) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: Solar PV Inverter (String Inverters) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: Solar PV Inverter (String Inverters) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: Solar PV Inverter (Microinverters) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: Solar PV Inverter (Microinverters) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: Solar PV Inverter (Others) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: Solar PV Inverter (Others) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: Solar PV Inverter (1,000 - 1,499 V) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: Solar PV Inverter (1,000 - 1,499 V) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: Solar PV Inverter (> 1,500 V) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: Solar PV Inverter (> 1,500 V) Market Forecast: Sales Value (in

Million US\$), 2023-2028

Figure 25: Global: Solar PV Inverter (Utility Scale) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: Solar PV Inverter (Utility Scale) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: Solar PV Inverter (Residential Scale) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: Solar PV Inverter (Residential Scale) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: Solar PV Inverter (Small Commercial Scale) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: Solar PV Inverter (Small Commercial Scale) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: Solar PV Inverter (Large Commercial Scale) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: Solar PV Inverter (Large Commercial Scale) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: Solar PV Inverter (Industrial Scale) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: Solar PV Inverter (Industrial Scale) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: Asia Pacific: Solar PV Inverter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: Asia Pacific: Solar PV Inverter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: Europe: Solar PV Inverter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: Europe: Solar PV Inverter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: North America: Solar PV Inverter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: North America: Solar PV Inverter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Middle East and Africa: Solar PV Inverter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 42: Middle East and Africa: Solar PV Inverter Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: Latin America: Solar PV Inverter Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: Latin America: Solar PV Inverter Market Forecast: Sales Value (in Million

US\$), 2023-2028

Figure 45: Solar PV Inverter Manufacturing: Process Flow

I would like to order

Product name: Solar PV Inverter Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/S08E7A93254EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S08E7A93254EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

