

Global Solar Photovoltaic Charge Controllers Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G0058D8332FEN.html>

Date: June 2024

Pages: 136

Price: US\$ 3,480.00 (Single User License)

ID: G0058D8332FEN

Abstracts

According to our (Global Info Research) latest study, the global Solar Photovoltaic Charge Controllers market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Solar Photovoltaic Charge Controllers are used in solar energy systems to protect the battery from being overcharged and over-discharged. The main types of solar charge controllers in this report covered MPPT and PWM.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards.

It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.47 GW.

The Global Info Research report includes an overview of the development of the Solar Photovoltaic Charge Controllers industry chain, the market status of Industrial & Commercial (PWM Photovoltaic Solar Charge Controller, MPPT Photovoltaic Solar Charge Controller), Residential & Rural Electrification (PWM Photovoltaic Solar Charge Controller, MPPT Photovoltaic Solar Charge Controller), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Solar Photovoltaic Charge Controllers.

Regionally, the report analyzes the Solar Photovoltaic Charge Controllers markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Solar Photovoltaic Charge Controllers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solar Photovoltaic Charge Controllers market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Solar Photovoltaic Charge Controllers industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., PWM Photovoltaic Solar Charge Controller, MPPT Photovoltaic Solar Charge Controller).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Solar Photovoltaic Charge Controllers market.

Regional Analysis: The report involves examining the Solar Photovoltaic Charge

Controllers market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Solar Photovoltaic Charge Controllers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Solar Photovoltaic Charge Controllers:

Company Analysis: Report covers individual Solar Photovoltaic Charge Controllers manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Solar Photovoltaic Charge Controllers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial & Commercial, Residential & Rural Electrification).

Technology Analysis: Report covers specific technologies relevant to Solar Photovoltaic Charge Controllers. It assesses the current state, advancements, and potential future developments in Solar Photovoltaic Charge Controllers areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Solar Photovoltaic Charge Controllers market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Solar Photovoltaic Charge Controllers market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and

value.

Market segment by Type

PWM Photovoltaic Solar Charge Controller

MPPT Photovoltaic Solar Charge Controller

Market segment by Application

Industrial & Commercial

Residential & Rural Electrification

Major players covered

Phocos

Morningstar

Steca

Shuori New Energy

Beijing Epsolar

OutBack Power

Remote Power

Victron Energy

Studer Innotec

Renogy

Specialty Concepts

Sollatek

Blue Sky Energy

Wuhan Wanpeng

Lumiix

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

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

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

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

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

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

Chapter 1, to describe Solar Photovoltaic Charge Controllers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Photovoltaic Charge Controllers, with price, sales, revenue and global market share of Solar Photovoltaic Charge Controllers from 2019 to 2024.

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

Chapter 4, the Solar Photovoltaic Charge Controllers breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions,

from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Solar Photovoltaic Charge Controllers market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Solar Photovoltaic Charge Controllers.

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

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