

Global Solar Charge Controllers Market Growth 2024-2030

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Abstracts

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PV Solar charge controllers, also known as PV solar charge regulators, 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.

The global Solar Charge Controllers market size is projected to grow from US\$ 401.8 million in 2023 to US\$ 730.7 million in 2030; it is expected to grow at a CAGR of 8.9% from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Solar Charge Controllers Industry Forecast” looks at past sales and reviews total world Solar Charge Controllers sales in 2023, providing a comprehensive analysis by region and market sector of projected Solar Charge Controllers sales for 2024 through 2030. With Solar Charge Controllers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solar Charge Controllers industry.

This Insight Report provides a comprehensive analysis of the global Solar Charge Controllers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solar Charge Controllers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solar Charge Controllers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solar Charge Controllers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solar Charge Controllers.

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 117.382 GW.

This report presents a comprehensive overview, market shares, and growth opportunities of Solar Charge Controllers market by product type, application, key manufacturers and key regions and countries.

Segmentation by type

PWM Solar Charge Controller

MPPT Solar Charge Controller

Segmentation by application

Industrial & Commercial

Residential & Rural Electrification

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solar Charge Controllers market?

What factors are driving Solar Charge Controllers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solar Charge Controllers market opportunities vary by end market size?

How does Solar Charge Controllers break out type, application?

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