

# **Global Organic Photovoltaic Devices Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Organic Photovoltaic Devices market size was valued at USD 237.7 million in 2022 and is forecast to a readjusted size of USD 518 million by 2029 with a CAGR of 11.8% during review period.

Organic photovoltaic devices are a type of solar photovoltaic technology that utilises organic semiconductor materials. Unlike conventional silicon-based solar cells, organic photovoltaic devices use organic (carbon-based) semiconductor materials, typically polymers or small molecule organic compounds, to capture and convert energy from sunlight.

Organic photovoltaic technology is constantly being innovated and improved. Researchers and manufacturers work to improve the efficiency, stability and cost-effectiveness of organic solar cells to make them more competitive. With the increasing demand for renewable energy and solar energy as one of the key components of clean energy, organic photovoltaic devices are gaining attention. Consumer and business interest in low carbon and sustainable energy is driving the market demand for organic PV. The application areas of organic photovoltaic devices are expanding to include building integration, portable electronic devices, outdoor use, and others. This diverse range of applications is helping to drive the market growth. Cost of organic photovoltaic technology remains a key issue. As the technology matures and scale effects are realised, the cost of organic photovoltaic devices is expected to decline further, making them more attractive.

The Global Info Research report includes an overview of the development of the Organic Photovoltaic Devices industry chain, the market status of Mobile Devices

(Single-layer Organic Photovoltaic Devices, Double-layer Organic Photovoltaic Devices), Aerospace (Single-layer Organic Photovoltaic Devices, Double-layer Organic Photovoltaic Devices), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Organic Photovoltaic Devices.

Regionally, the report analyzes the Organic Photovoltaic Devices 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 Organic Photovoltaic Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Organic Photovoltaic Devices 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 Organic Photovoltaic Devices 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., Single-layer Organic Photovoltaic Devices, Double-layer Organic Photovoltaic Devices).

**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 Organic Photovoltaic Devices market.

**Regional Analysis:** The report involves examining the Organic Photovoltaic Devices 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 Organic Photovoltaic Devices market. This may include estimating market growth rates, predicting market demand, and identifying emerging

trends.

The report also involves a more granular approach to Organic Photovoltaic Devices:

**Company Analysis:** Report covers individual Organic Photovoltaic Devices 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 Organic Photovoltaic Devices. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Mobile Devices, Aerospace).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Organic Photovoltaic Devices 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

Organic Photovoltaic Devices market is split by Type and by Application. For the period 2018-2029, 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

Single-layer Organic Photovoltaic Devices

Double-layer Organic Photovoltaic Devices

Others

## Market segment by Application

Mobile Devices

Aerospace

Military

Consumer Electronics

Others

## Major players covered

Heliatek

Solarmer Energy

Merck

Belectric OPV

Ossila

ARMOR

Sumitomo Chemical

DisaSolar

Heraeus

SunCurtain

Savvy Science

Flask

Brilliant Matters

Eight19

SunPower

Epishine

Solivus

Dracula Technologies

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 Organic Photovoltaic Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Organic Photovoltaic Devices, with price, sales, revenue and global market share of Organic Photovoltaic Devices from 2018 to 2023.

Chapter 3, the Organic Photovoltaic Devices competitive situation, sales quantity,

revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Organic Photovoltaic Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and Organic Photovoltaic Devices market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

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 Organic Photovoltaic Devices.

Chapter 14 and 15, to describe Organic Photovoltaic Devices sales channel, distributors, customers, research findings and conclusion.

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