

Global HIT (Heterojunction) Solar Cell Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global HIT (Heterojunction) Solar Cell market size was valued at USD 1215 million in 2023 and is forecast to a readjusted size of USD 21910 million by 2030 with a CAGR of 51.2% during review period.

Heterojunction is one of the two advanced cell architectures the solar industry has been banking upon to improve the performance of today's PV device. The current cell technology incumbent, PERC has hit its efficiency threshold, and even the large wafer trick that allowed it to generate more power is not exclusive to PERC anymore. Consequently, cell/module manufacturers have once again started focusing on high efficiency, and this is where HJT makes its presence felt. HJT, now on the radar of many PV manufacturers, has made significant progress in recent times. As a technology, HJT is a variant of passivated contacts, so is TOPCon. Both the technologies address the primary shortcoming of most of the cell technologies, i.e., recombination due to metallic contacts. This is achieved by electronically separating contacts from the absorber by inserting a wider band-gap layer. Where HJT differs from TOPCon, which is single sided, is that the said layer is inserted on both sides and the process itself is accomplished at a low temperature. HJT comes with a few more advantages such as a short production process with fewer steps, high bifaciality, better low-light performance and low degradation. Besides, HJT is anything but new, as the technology has been in production for over two decades.

Global key players of HIT (heterojunction) solar cell include Huasun, TW Solar, Canadian Solar, REC, Jinneng, etc. The top five players hold a share about 58%. North America is the largest market, has a share about 54%, followed by Europe and Asia,

with share 25% and 16%, separately. In terms of product type, silver is the largest segment, accounting for approximately 97% of the market share. At the same time, in terms of downstream, residential use is the largest downstream sector, accounting for 85% of the market share.

The Global Info Research report includes an overview of the development of the HIT (Heterojunction) Solar Cell industry chain, the market status of PV Power Station (Silver-based, Copper-based), Commercial (Silver-based, Copper-based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of HIT (Heterojunction) Solar Cell.

Regionally, the report analyzes the HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell 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 (MW), revenue generated, and market share of different by Type (e.g., Silver-based, Copper-based).

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 HIT (Heterojunction) Solar Cell market.

Regional Analysis: The report involves examining the HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to HIT (Heterojunction) Solar Cell:

Company Analysis: Report covers individual HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PV Power Station, Commercial).

Technology Analysis: Report covers specific technologies relevant to HIT (Heterojunction) Solar Cell. It assesses the current state, advancements, and potential future developments in HIT (Heterojunction) Solar Cell areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the HIT (Heterojunction) Solar Cell 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

HIT (Heterojunction) Solar Cell 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

Silver-based

Copper-based

Others

Market segment by Application

PV Power Station

Commercial

Residential

Major players covered

Panasonic

GS-Solar

REC

Jinneng

Huasun

Akcome

TW Solar

Canadian Solar

Risen Energy

Enel (3SUN)

Meyer Burger

Hevel

EcoSolifer

Heliene

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 HIT (Heterojunction) Solar Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HIT (Heterojunction) Solar Cell, with price, sales, revenue and global market share of HIT (Heterojunction) Solar Cell from 2019 to 2024.

Chapter 3, the HIT (Heterojunction) Solar Cell competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell 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 HIT (Heterojunction) Solar Cell.

Chapter 14 and 15, to describe HIT (Heterojunction) Solar Cell sales channel, distributors, customers, research findings and conclusion.

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