

# Global Bifacial PERC Cell Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

https://marketpublishers.com/r/GB2F7B2D4995EN.html

Date: June 2023

Pages: 126

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

ID: GB2F7B2D4995EN

## **Abstracts**

According to our (Global Info Research) latest study, the global Bifacial PERC Cell market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Bifacial PERC Cell market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

## Key Features:

Global Bifacial PERC Cell market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Bifacial PERC Cell market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Bifacial PERC Cell market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029



Global Bifacial PERC Cell market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bifacial PERC Cell

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bifacial PERC Cell market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Tongwei Solar, JinkoSolar, LONGi Green Energy, Aiko Technology and Trina Solar, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Bifacial PERC Cell 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-glass Bifacial PERC Cell

Double glass Bifacial PERC Cell

Market segment by Application



**Ground Power Station** Agriculture and Light Complementary Fishing and Light Complementarity Areas of Strong Diffuse Reflection Urban Highway Guardrail Project Others Major players covered Tongwei Solar JinkoSolar LONGi Green Energy Aiko Technology Trina Solar JA Solar Hanwha Q CELLS Canadian Solar Inc Adani Solar SunPower Solar World

HT-SAAE



	Suntech	
	Astronergy	
	Risen Energy Group	
	REC Solar Holdings	
	Akcome	
	Eging PV	
	DAS Solar	
	Seraphim Energy	
	Yingli Solar	
	Jinergy Solar	
	Talesun Solar	
	Ming Hwei Energy	
	Emmvee	
	Jiangsu Runergy New Energy	
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 Bifacial PERC Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bifacial PERC Cell, with price, sales, revenue and global market share of Bifacial PERC Cell from 2018 to 2023.

Chapter 3, the Bifacial PERC Cell competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bifacial PERC Cell 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 Bifacial PERC Cell market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bifacial PERC Cell.

Chapter 14 and 15, to describe Bifacial PERC Cell sales channel, distributors, customers, research findings and conclusion.



## **Contents**

#### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Bifacial PERC Cell
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
- 1.3.1 Overview: Global Bifacial PERC Cell Consumption Value by Type: 2018 Versus 2022 Versus 2029
  - 1.3.2 Single-glass Bifacial PERC Cell
  - 1.3.3 Double glass Bifacial PERC Cell
- 1.4 Market Analysis by Application
- 1.4.1 Overview: Global Bifacial PERC Cell Consumption Value by Application: 2018 Versus 2022 Versus 2029
  - 1.4.2 Ground Power Station
  - 1.4.3 Agriculture and Light Complementary
  - 1.4.4 Fishing and Light Complementarity
  - 1.4.5 Areas of Strong Diffuse Reflection
  - 1.4.6 Urban Highway Guardrail Project
  - 1.4.7 Others
- 1.5 Global Bifacial PERC Cell Market Size & Forecast
  - 1.5.1 Global Bifacial PERC Cell Consumption Value (2018 & 2022 & 2029)
  - 1.5.2 Global Bifacial PERC Cell Sales Quantity (2018-2029)
  - 1.5.3 Global Bifacial PERC Cell Average Price (2018-2029)

#### **2 MANUFACTURERS PROFILES**

- 2.1 Tongwei Solar
  - 2.1.1 Tongwei Solar Details
  - 2.1.2 Tongwei Solar Major Business
  - 2.1.3 Tongwei Solar Bifacial PERC Cell Product and Services
  - 2.1.4 Tongwei Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2018-2023)

- 2.1.5 Tongwei Solar Recent Developments/Updates
- 2.2 JinkoSolar
  - 2.2.1 JinkoSolar Details
  - 2.2.2 JinkoSolar Major Business
  - 2.2.3 JinkoSolar Bifacial PERC Cell Product and Services
- 2.2.4 JinkoSolar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross



## Margin and Market Share (2018-2023)

- 2.2.5 JinkoSolar Recent Developments/Updates
- 2.3 LONGi Green Energy
  - 2.3.1 LONGi Green Energy Details
  - 2.3.2 LONGi Green Energy Major Business
  - 2.3.3 LONGi Green Energy Bifacial PERC Cell Product and Services
  - 2.3.4 LONGi Green Energy Bifacial PERC Cell Sales Quantity, Average Price,

## Revenue, Gross Margin and Market Share (2018-2023)

- 2.3.5 LONGi Green Energy Recent Developments/Updates
- 2.4 Aiko Technology
  - 2.4.1 Aiko Technology Details
  - 2.4.2 Aiko Technology Major Business
  - 2.4.3 Aiko Technology Bifacial PERC Cell Product and Services
  - 2.4.4 Aiko Technology Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2018-2023)

- 2.4.5 Aiko Technology Recent Developments/Updates
- 2.5 Trina Solar
  - 2.5.1 Trina Solar Details
  - 2.5.2 Trina Solar Major Business
  - 2.5.3 Trina Solar Bifacial PERC Cell Product and Services
- 2.5.4 Trina Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.5.5 Trina Solar Recent Developments/Updates
- 2.6 JA Solar
  - 2.6.1 JA Solar Details
  - 2.6.2 JA Solar Major Business
  - 2.6.3 JA Solar Bifacial PERC Cell Product and Services
- 2.6.4 JA Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross

#### Margin and Market Share (2018-2023)

- 2.6.5 JA Solar Recent Developments/Updates
- 2.7 Hanwha Q CELLS
  - 2.7.1 Hanwha Q CELLS Details
  - 2.7.2 Hanwha Q CELLS Major Business
  - 2.7.3 Hanwha Q CELLS Bifacial PERC Cell Product and Services
  - 2.7.4 Hanwha Q CELLS Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2018-2023)

- 2.7.5 Hanwha Q CELLS Recent Developments/Updates
- 2.8 Canadian Solar Inc
- 2.8.1 Canadian Solar Inc Details



- 2.8.2 Canadian Solar Inc Major Business
- 2.8.3 Canadian Solar Inc Bifacial PERC Cell Product and Services
- 2.8.4 Canadian Solar Inc Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 Canadian Solar Inc Recent Developments/Updates
- 2.9 Adani Solar
  - 2.9.1 Adani Solar Details
  - 2.9.2 Adani Solar Major Business
  - 2.9.3 Adani Solar Bifacial PERC Cell Product and Services
- 2.9.4 Adani Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.9.5 Adani Solar Recent Developments/Updates
- 2.10 SunPower
  - 2.10.1 SunPower Details
  - 2.10.2 SunPower Major Business
  - 2.10.3 SunPower Bifacial PERC Cell Product and Services
- 2.10.4 SunPower Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.10.5 SunPower Recent Developments/Updates
- 2.11 Solar World
  - 2.11.1 Solar World Details
  - 2.11.2 Solar World Major Business
  - 2.11.3 Solar World Bifacial PERC Cell Product and Services
- 2.11.4 Solar World Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.11.5 Solar World Recent Developments/Updates
- 2.12 HT-SAAE
  - 2.12.1 HT-SAAE Details
  - 2.12.2 HT-SAAE Major Business
  - 2.12.3 HT-SAAE Bifacial PERC Cell Product and Services
- 2.12.4 HT-SAAE Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.12.5 HT-SAAE Recent Developments/Updates
- 2.13 Suntech
  - 2.13.1 Suntech Details
  - 2.13.2 Suntech Major Business
  - 2.13.3 Suntech Bifacial PERC Cell Product and Services
- 2.13.4 Suntech Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)



- 2.13.5 Suntech Recent Developments/Updates
- 2.14 Astronergy
  - 2.14.1 Astronergy Details
  - 2.14.2 Astronergy Major Business
  - 2.14.3 Astronergy Bifacial PERC Cell Product and Services
- 2.14.4 Astronergy Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2018-2023)

- 2.14.5 Astronergy Recent Developments/Updates
- 2.15 Risen Energy Group
  - 2.15.1 Risen Energy Group Details
  - 2.15.2 Risen Energy Group Major Business
  - 2.15.3 Risen Energy Group Bifacial PERC Cell Product and Services
  - 2.15.4 Risen Energy Group Bifacial PERC Cell Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

- 2.15.5 Risen Energy Group Recent Developments/Updates
- 2.16 REC Solar Holdings
  - 2.16.1 REC Solar Holdings Details
  - 2.16.2 REC Solar Holdings Major Business
  - 2.16.3 REC Solar Holdings Bifacial PERC Cell Product and Services
  - 2.16.4 REC Solar Holdings Bifacial PERC Cell Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2018-2023)

- 2.16.5 REC Solar Holdings Recent Developments/Updates
- 2.17 Akcome
  - 2.17.1 Akcome Details
  - 2.17.2 Akcome Major Business
  - 2.17.3 Akcome Bifacial PERC Cell Product and Services
- 2.17.4 Akcome Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.17.5 Akcome Recent Developments/Updates
- 2.18 Eging PV
  - 2.18.1 Eging PV Details
  - 2.18.2 Eging PV Major Business
  - 2.18.3 Eging PV Bifacial PERC Cell Product and Services
  - 2.18.4 Eging PV Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2018-2023)

- 2.18.5 Eging PV Recent Developments/Updates
- 2.19 DAS Solar
  - 2.19.1 DAS Solar Details
  - 2.19.2 DAS Solar Major Business



- 2.19.3 DAS Solar Bifacial PERC Cell Product and Services
- 2.19.4 DAS Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.19.5 DAS Solar Recent Developments/Updates
- 2.20 Seraphim Energy
  - 2.20.1 Seraphim Energy Details
  - 2.20.2 Seraphim Energy Major Business
  - 2.20.3 Seraphim Energy Bifacial PERC Cell Product and Services
- 2.20.4 Seraphim Energy Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2018-2023)

- 2.20.5 Seraphim Energy Recent Developments/Updates
- 2.21 Yingli Solar
  - 2.21.1 Yingli Solar Details
  - 2.21.2 Yingli Solar Major Business
  - 2.21.3 Yingli Solar Bifacial PERC Cell Product and Services
- 2.21.4 Yingli Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.21.5 Yingli Solar Recent Developments/Updates
- 2.22 Jinergy Solar
  - 2.22.1 Jinergy Solar Details
  - 2.22.2 Jinergy Solar Major Business
  - 2.22.3 Jinergy Solar Bifacial PERC Cell Product and Services
  - 2.22.4 Jinergy Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2018-2023)

- 2.22.5 Jinergy Solar Recent Developments/Updates
- 2.23 Talesun Solar
  - 2.23.1 Talesun Solar Details
  - 2.23.2 Talesun Solar Major Business
  - 2.23.3 Talesun Solar Bifacial PERC Cell Product and Services
  - 2.23.4 Talesun Solar Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2018-2023)

- 2.23.5 Talesun Solar Recent Developments/Updates
- 2.24 Ming Hwei Energy
  - 2.24.1 Ming Hwei Energy Details
  - 2.24.2 Ming Hwei Energy Major Business
  - 2.24.3 Ming Hwei Energy Bifacial PERC Cell Product and Services
  - 2.24.4 Ming Hwei Energy Bifacial PERC Cell Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2018-2023)

2.24.5 Ming Hwei Energy Recent Developments/Updates



- 2.25 Emmyee
  - 2.25.1 Emmvee Details
  - 2.25.2 Emmvee Major Business
  - 2.25.3 Emmvee Bifacial PERC Cell Product and Services
- 2.25.4 Emmvee Bifacial PERC Cell Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.25.5 Emmvee Recent Developments/Updates
- 2.26 Jiangsu Runergy New Energy
  - 2.26.1 Jiangsu Runergy New Energy Details
  - 2.26.2 Jiangsu Runergy New Energy Major Business
  - 2.26.3 Jiangsu Runergy New Energy Bifacial PERC Cell Product and Services
  - 2.26.4 Jiangsu Runergy New Energy Bifacial PERC Cell Sales Quantity, Average
- Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.26.5 Jiangsu Runergy New Energy Recent Developments/Updates

#### 3 COMPETITIVE ENVIRONMENT: BIFACIAL PERC CELL BY MANUFACTURER

- 3.1 Global Bifacial PERC Cell Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Bifacial PERC Cell Revenue by Manufacturer (2018-2023)
- 3.3 Global Bifacial PERC Cell Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
- 3.4.1 Producer Shipments of Bifacial PERC Cell by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Bifacial PERC Cell Manufacturer Market Share in 2022
- 3.4.2 Top 6 Bifacial PERC Cell Manufacturer Market Share in 2022
- 3.5 Bifacial PERC Cell Market: Overall Company Footprint Analysis
  - 3.5.1 Bifacial PERC Cell Market: Region Footprint
  - 3.5.2 Bifacial PERC Cell Market: Company Product Type Footprint
  - 3.5.3 Bifacial PERC Cell Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

#### 4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Bifacial PERC Cell Market Size by Region
  - 4.1.1 Global Bifacial PERC Cell Sales Quantity by Region (2018-2029)
  - 4.1.2 Global Bifacial PERC Cell Consumption Value by Region (2018-2029)
  - 4.1.3 Global Bifacial PERC Cell Average Price by Region (2018-2029)
- 4.2 North America Bifacial PERC Cell Consumption Value (2018-2029)



- 4.3 Europe Bifacial PERC Cell Consumption Value (2018-2029)
- 4.4 Asia-Pacific Bifacial PERC Cell Consumption Value (2018-2029)
- 4.5 South America Bifacial PERC Cell Consumption Value (2018-2029)
- 4.6 Middle East and Africa Bifacial PERC Cell Consumption Value (2018-2029)

#### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 5.2 Global Bifacial PERC Cell Consumption Value by Type (2018-2029)
- 5.3 Global Bifacial PERC Cell Average Price by Type (2018-2029)

#### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 6.2 Global Bifacial PERC Cell Consumption Value by Application (2018-2029)
- 6.3 Global Bifacial PERC Cell Average Price by Application (2018-2029)

#### 7 NORTH AMERICA

- 7.1 North America Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 7.2 North America Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 7.3 North America Bifacial PERC Cell Market Size by Country
- 7.3.1 North America Bifacial PERC Cell Sales Quantity by Country (2018-2029)
- 7.3.2 North America Bifacial PERC Cell Consumption Value by Country (2018-2029)
- 7.3.3 United States Market Size and Forecast (2018-2029)
- 7.3.4 Canada Market Size and Forecast (2018-2029)
- 7.3.5 Mexico Market Size and Forecast (2018-2029)

#### **8 EUROPE**

- 8.1 Europe Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 8.2 Europe Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 8.3 Europe Bifacial PERC Cell Market Size by Country
  - 8.3.1 Europe Bifacial PERC Cell Sales Quantity by Country (2018-2029)
  - 8.3.2 Europe Bifacial PERC Cell Consumption Value by Country (2018-2029)
  - 8.3.3 Germany Market Size and Forecast (2018-2029)
  - 8.3.4 France Market Size and Forecast (2018-2029)
  - 8.3.5 United Kingdom Market Size and Forecast (2018-2029)
  - 8.3.6 Russia Market Size and Forecast (2018-2029)



## 8.3.7 Italy Market Size and Forecast (2018-2029)

#### 9 ASIA-PACIFIC

- 9.1 Asia-Pacific Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 9.2 Asia-Pacific Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 9.3 Asia-Pacific Bifacial PERC Cell Market Size by Region
  - 9.3.1 Asia-Pacific Bifacial PERC Cell Sales Quantity by Region (2018-2029)
  - 9.3.2 Asia-Pacific Bifacial PERC Cell Consumption Value by Region (2018-2029)
  - 9.3.3 China Market Size and Forecast (2018-2029)
  - 9.3.4 Japan Market Size and Forecast (2018-2029)
  - 9.3.5 Korea Market Size and Forecast (2018-2029)
  - 9.3.6 India Market Size and Forecast (2018-2029)
  - 9.3.7 Southeast Asia Market Size and Forecast (2018-2029)
  - 9.3.8 Australia Market Size and Forecast (2018-2029)

#### 10 SOUTH AMERICA

- 10.1 South America Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 10.2 South America Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 10.3 South America Bifacial PERC Cell Market Size by Country
  - 10.3.1 South America Bifacial PERC Cell Sales Quantity by Country (2018-2029)
  - 10.3.2 South America Bifacial PERC Cell Consumption Value by Country (2018-2029)
  - 10.3.3 Brazil Market Size and Forecast (2018-2029)
- 10.3.4 Argentina Market Size and Forecast (2018-2029)

#### 11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Bifacial PERC Cell Sales Quantity by Type (2018-2029)
- 11.2 Middle East & Africa Bifacial PERC Cell Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Bifacial PERC Cell Market Size by Country
  - 11.3.1 Middle East & Africa Bifacial PERC Cell Sales Quantity by Country (2018-2029)
- 11.3.2 Middle East & Africa Bifacial PERC Cell Consumption Value by Country (2018-2029)
  - 11.3.3 Turkey Market Size and Forecast (2018-2029)
  - 11.3.4 Egypt Market Size and Forecast (2018-2029)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
  - 11.3.6 South Africa Market Size and Forecast (2018-2029)



#### 12 MARKET DYNAMICS

- 12.1 Bifacial PERC Cell Market Drivers
- 12.2 Bifacial PERC Cell Market Restraints
- 12.3 Bifacial PERC Cell Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry
- 12.5 Influence of COVID-19 and Russia-Ukraine War
  - 12.5.1 Influence of COVID-19
  - 12.5.2 Influence of Russia-Ukraine War

#### 13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Bifacial PERC Cell and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Bifacial PERC Cell
- 13.3 Bifacial PERC Cell Production Process
- 13.4 Bifacial PERC Cell Industrial Chain

#### 14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Bifacial PERC Cell Typical Distributors
- 14.3 Bifacial PERC Cell Typical Customers

## 15 RESEARCH FINDINGS AND CONCLUSION

#### 16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer



## **List Of Tables**

#### LIST OF TABLES

Table 1. Global Bifacial PERC Cell Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Bifacial PERC Cell Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Tongwei Solar Basic Information, Manufacturing Base and Competitors

Table 4. Tongwei Solar Major Business

Table 5. Tongwei Solar Bifacial PERC Cell Product and Services

Table 6. Tongwei Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Tongwei Solar Recent Developments/Updates

Table 8. JinkoSolar Basic Information, Manufacturing Base and Competitors

Table 9. JinkoSolar Major Business

Table 10. JinkoSolar Bifacial PERC Cell Product and Services

Table 11. JinkoSolar Bifacial PERC Cell Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. JinkoSolar Recent Developments/Updates

Table 13. LONGi Green Energy Basic Information, Manufacturing Base and Competitors

Table 14. LONGi Green Energy Major Business

Table 15. LONGi Green Energy Bifacial PERC Cell Product and Services

Table 16. LONGi Green Energy Bifacial PERC Cell Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. LONGi Green Energy Recent Developments/Updates

Table 18. Aiko Technology Basic Information, Manufacturing Base and Competitors

Table 19. Aiko Technology Major Business

Table 20. Aiko Technology Bifacial PERC Cell Product and Services

Table 21. Aiko Technology Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Aiko Technology Recent Developments/Updates

Table 23. Trina Solar Basic Information, Manufacturing Base and Competitors

Table 24. Trina Solar Major Business

Table 25. Trina Solar Bifacial PERC Cell Product and Services

Table 26. Trina Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 27. Trina Solar Recent Developments/Updates



- Table 28. JA Solar Basic Information, Manufacturing Base and Competitors
- Table 29. JA Solar Major Business
- Table 30. JA Solar Bifacial PERC Cell Product and Services
- Table 31. JA Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 32. JA Solar Recent Developments/Updates
- Table 33. Hanwha Q CELLS Basic Information, Manufacturing Base and Competitors
- Table 34. Hanwha Q CELLS Major Business
- Table 35. Hanwha Q CELLS Bifacial PERC Cell Product and Services
- Table 36. Hanwha Q CELLS Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 37. Hanwha Q CELLS Recent Developments/Updates
- Table 38. Canadian Solar Inc Basic Information, Manufacturing Base and Competitors
- Table 39. Canadian Solar Inc Major Business
- Table 40. Canadian Solar Inc Bifacial PERC Cell Product and Services
- Table 41. Canadian Solar Inc Bifacial PERC Cell Sales Quantity (K Units), Average
- Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 42. Canadian Solar Inc Recent Developments/Updates
- Table 43. Adani Solar Basic Information, Manufacturing Base and Competitors
- Table 44. Adani Solar Major Business
- Table 45. Adani Solar Bifacial PERC Cell Product and Services
- Table 46. Adani Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 47. Adani Solar Recent Developments/Updates
- Table 48. SunPower Basic Information, Manufacturing Base and Competitors
- Table 49. SunPower Major Business
- Table 50. SunPower Bifacial PERC Cell Product and Services
- Table 51. SunPower Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 52. SunPower Recent Developments/Updates
- Table 53. Solar World Basic Information, Manufacturing Base and Competitors
- Table 54. Solar World Major Business
- Table 55. Solar World Bifacial PERC Cell Product and Services
- Table 56. Solar World Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 57. Solar World Recent Developments/Updates
- Table 58. HT-SAAE Basic Information, Manufacturing Base and Competitors
- Table 59. HT-SAAE Major Business
- Table 60. HT-SAAE Bifacial PERC Cell Product and Services



Table 61. HT-SAAE Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. HT-SAAE Recent Developments/Updates

Table 63. Suntech Basic Information, Manufacturing Base and Competitors

Table 64. Suntech Major Business

Table 65. Suntech Bifacial PERC Cell Product and Services

Table 66. Suntech Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Suntech Recent Developments/Updates

Table 68. Astronergy Basic Information, Manufacturing Base and Competitors

Table 69. Astronergy Major Business

Table 70. Astronergy Bifacial PERC Cell Product and Services

Table 71. Astronergy Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. Astronergy Recent Developments/Updates

Table 73. Risen Energy Group Basic Information, Manufacturing Base and Competitors

Table 74. Risen Energy Group Major Business

Table 75. Risen Energy Group Bifacial PERC Cell Product and Services

Table 76. Risen Energy Group Bifacial PERC Cell Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Risen Energy Group Recent Developments/Updates

Table 78. REC Solar Holdings Basic Information, Manufacturing Base and Competitors

Table 79. REC Solar Holdings Major Business

Table 80. REC Solar Holdings Bifacial PERC Cell Product and Services

Table 81. REC Solar Holdings Bifacial PERC Cell Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 82. REC Solar Holdings Recent Developments/Updates

Table 83. Akcome Basic Information, Manufacturing Base and Competitors

Table 84. Akcome Major Business

Table 85. Akcome Bifacial PERC Cell Product and Services

Table 86. Akcome Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 87. Akcome Recent Developments/Updates

Table 88. Eging PV Basic Information, Manufacturing Base and Competitors

Table 89. Eging PV Major Business

Table 90. Eging PV Bifacial PERC Cell Product and Services

Table 91. Eging PV Bifacial PERC Cell Sales Quantity (K Units), Average Price

(US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 92. Eging PV Recent Developments/Updates



- Table 93. DAS Solar Basic Information, Manufacturing Base and Competitors
- Table 94. DAS Solar Major Business
- Table 95. DAS Solar Bifacial PERC Cell Product and Services
- Table 96. DAS Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 97. DAS Solar Recent Developments/Updates
- Table 98. Seraphim Energy Basic Information, Manufacturing Base and Competitors
- Table 99. Seraphim Energy Major Business
- Table 100. Seraphim Energy Bifacial PERC Cell Product and Services
- Table 101. Seraphim Energy Bifacial PERC Cell Sales Quantity (K Units), Average
- Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 102. Seraphim Energy Recent Developments/Updates
- Table 103. Yingli Solar Basic Information, Manufacturing Base and Competitors
- Table 104. Yingli Solar Major Business
- Table 105. Yingli Solar Bifacial PERC Cell Product and Services
- Table 106. Yingli Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Yingli Solar Recent Developments/Updates
- Table 108. Jinergy Solar Basic Information, Manufacturing Base and Competitors
- Table 109. Jinergy Solar Major Business
- Table 110. Jinergy Solar Bifacial PERC Cell Product and Services
- Table 111. Jinergy Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 112. Jinergy Solar Recent Developments/Updates
- Table 113. Talesun Solar Basic Information, Manufacturing Base and Competitors
- Table 114. Talesun Solar Major Business
- Table 115. Talesun Solar Bifacial PERC Cell Product and Services
- Table 116. Talesun Solar Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 117. Talesun Solar Recent Developments/Updates
- Table 118. Ming Hwei Energy Basic Information, Manufacturing Base and Competitors
- Table 119. Ming Hwei Energy Major Business
- Table 120. Ming Hwei Energy Bifacial PERC Cell Product and Services
- Table 121. Ming Hwei Energy Bifacial PERC Cell Sales Quantity (K Units), Average
- Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 122. Ming Hwei Energy Recent Developments/Updates
- Table 123. Emmvee Basic Information, Manufacturing Base and Competitors
- Table 124. Emmvee Major Business
- Table 125. Emmvee Bifacial PERC Cell Product and Services



- Table 126. Emmvee Bifacial PERC Cell Sales Quantity (K Units), Average Price
- (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 127. Emmvee Recent Developments/Updates
- Table 128. Jiangsu Runergy New Energy Basic Information, Manufacturing Base and Competitors
- Table 129. Jiangsu Runergy New Energy Major Business
- Table 130. Jiangsu Runergy New Energy Bifacial PERC Cell Product and Services
- Table 131. Jiangsu Runergy New Energy Bifacial PERC Cell Sales Quantity (K Units),
- Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 132. Jiangsu Runergy New Energy Recent Developments/Updates
- Table 133. Global Bifacial PERC Cell Sales Quantity by Manufacturer (2018-2023) & (K Units)
- Table 134. Global Bifacial PERC Cell Revenue by Manufacturer (2018-2023) & (USD Million)
- Table 135. Global Bifacial PERC Cell Average Price by Manufacturer (2018-2023) & (US\$/Unit)
- Table 136. Market Position of Manufacturers in Bifacial PERC Cell, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022
- Table 137. Head Office and Bifacial PERC Cell Production Site of Key Manufacturer
- Table 138. Bifacial PERC Cell Market: Company Product Type Footprint
- Table 139. Bifacial PERC Cell Market: Company Product Application Footprint
- Table 140. Bifacial PERC Cell New Market Entrants and Barriers to Market Entry
- Table 141. Bifacial PERC Cell Mergers, Acquisition, Agreements, and Collaborations
- Table 142. Global Bifacial PERC Cell Sales Quantity by Region (2018-2023) & (K Units)
- Table 143. Global Bifacial PERC Cell Sales Quantity by Region (2024-2029) & (K Units)
- Table 144. Global Bifacial PERC Cell Consumption Value by Region (2018-2023) & (USD Million)
- Table 145. Global Bifacial PERC Cell Consumption Value by Region (2024-2029) & (USD Million)
- Table 146. Global Bifacial PERC Cell Average Price by Region (2018-2023) & (US\$/Unit)
- Table 147. Global Bifacial PERC Cell Average Price by Region (2024-2029) & (US\$/Unit)
- Table 148. Global Bifacial PERC Cell Sales Quantity by Type (2018-2023) & (K Units)
- Table 149. Global Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)
- Table 150. Global Bifacial PERC Cell Consumption Value by Type (2018-2023) & (USD Million)
- Table 151. Global Bifacial PERC Cell Consumption Value by Type (2024-2029) & (USD



## Million)

- Table 152. Global Bifacial PERC Cell Average Price by Type (2018-2023) & (US\$/Unit)
- Table 153. Global Bifacial PERC Cell Average Price by Type (2024-2029) & (US\$/Unit)
- Table 154. Global Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)
- Table 155. Global Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)
- Table 156. Global Bifacial PERC Cell Consumption Value by Application (2018-2023) & (USD Million)
- Table 157. Global Bifacial PERC Cell Consumption Value by Application (2024-2029) & (USD Million)
- Table 158. Global Bifacial PERC Cell Average Price by Application (2018-2023) & (US\$/Unit)
- Table 159. Global Bifacial PERC Cell Average Price by Application (2024-2029) & (US\$/Unit)
- Table 160. North America Bifacial PERC Cell Sales Quantity by Type (2018-2023) & (K Units)
- Table 161. North America Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)
- Table 162. North America Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)
- Table 163. North America Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)
- Table 164. North America Bifacial PERC Cell Sales Quantity by Country (2018-2023) & (K Units)
- Table 165. North America Bifacial PERC Cell Sales Quantity by Country (2024-2029) & (K Units)
- Table 166. North America Bifacial PERC Cell Consumption Value by Country (2018-2023) & (USD Million)
- Table 167. North America Bifacial PERC Cell Consumption Value by Country (2024-2029) & (USD Million)
- Table 168. Europe Bifacial PERC Cell Sales Quantity by Type (2018-2023) & (K Units)
- Table 169. Europe Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)
- Table 170. Europe Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)
- Table 171. Europe Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)
- Table 172. Europe Bifacial PERC Cell Sales Quantity by Country (2018-2023) & (K Units)



- Table 173. Europe Bifacial PERC Cell Sales Quantity by Country (2024-2029) & (K Units)
- Table 174. Europe Bifacial PERC Cell Consumption Value by Country (2018-2023) & (USD Million)
- Table 175. Europe Bifacial PERC Cell Consumption Value by Country (2024-2029) & (USD Million)
- Table 176. Asia-Pacific Bifacial PERC Cell Sales Quantity by Type (2018-2023) & (K Units)
- Table 177. Asia-Pacific Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)
- Table 178. Asia-Pacific Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)
- Table 179. Asia-Pacific Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)
- Table 180. Asia-Pacific Bifacial PERC Cell Sales Quantity by Region (2018-2023) & (K Units)
- Table 181. Asia-Pacific Bifacial PERC Cell Sales Quantity by Region (2024-2029) & (K Units)
- Table 182. Asia-Pacific Bifacial PERC Cell Consumption Value by Region (2018-2023) & (USD Million)
- Table 183. Asia-Pacific Bifacial PERC Cell Consumption Value by Region (2024-2029) & (USD Million)
- Table 184. South America Bifacial PERC Cell Sales Quantity by Type (2018-2023) & (K Units)
- Table 185. South America Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)
- Table 186. South America Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)
- Table 187. South America Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)
- Table 188. South America Bifacial PERC Cell Sales Quantity by Country (2018-2023) & (K Units)
- Table 189. South America Bifacial PERC Cell Sales Quantity by Country (2024-2029) & (K Units)
- Table 190. South America Bifacial PERC Cell Consumption Value by Country (2018-2023) & (USD Million)
- Table 191. South America Bifacial PERC Cell Consumption Value by Country (2024-2029) & (USD Million)
- Table 192. Middle East & Africa Bifacial PERC Cell Sales Quantity by Type (2018-2023)



& (K Units)

Table 193. Middle East & Africa Bifacial PERC Cell Sales Quantity by Type (2024-2029) & (K Units)

Table 194. Middle East & Africa Bifacial PERC Cell Sales Quantity by Application (2018-2023) & (K Units)

Table 195. Middle East & Africa Bifacial PERC Cell Sales Quantity by Application (2024-2029) & (K Units)

Table 196. Middle East & Africa Bifacial PERC Cell Sales Quantity by Region (2018-2023) & (K Units)

Table 197. Middle East & Africa Bifacial PERC Cell Sales Quantity by Region (2024-2029) & (K Units)

Table 198. Middle East & Africa Bifacial PERC Cell Consumption Value by Region (2018-2023) & (USD Million)

Table 199. Middle East & Africa Bifacial PERC Cell Consumption Value by Region (2024-2029) & (USD Million)

Table 200. Bifacial PERC Cell Raw Material

Table 201. Key Manufacturers of Bifacial PERC Cell Raw Materials

Table 202. Bifacial PERC Cell Typical Distributors

Table 203. Bifacial PERC Cell Typical Customers



# **List Of Figures**

#### LIST OF FIGURES

- Figure 1. Bifacial PERC Cell Picture
- Figure 2. Global Bifacial PERC Cell Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Bifacial PERC Cell Consumption Value Market Share by Type in 2022
- Figure 4. Single-glass Bifacial PERC Cell Examples
- Figure 5. Double glass Bifacial PERC Cell Examples
- Figure 6. Global Bifacial PERC Cell Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 7. Global Bifacial PERC Cell Consumption Value Market Share by Application in 2022
- Figure 8. Ground Power Station Examples
- Figure 9. Agriculture and Light Complementary Examples
- Figure 10. Fishing and Light Complementarity Examples
- Figure 11. Areas of Strong Diffuse Reflection Examples
- Figure 12. Urban Highway Guardrail Project Examples
- Figure 13. Others Examples
- Figure 14. Global Bifacial PERC Cell Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 15. Global Bifacial PERC Cell Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 16. Global Bifacial PERC Cell Sales Quantity (2018-2029) & (K Units)
- Figure 17. Global Bifacial PERC Cell Average Price (2018-2029) & (US\$/Unit)
- Figure 18. Global Bifacial PERC Cell Sales Quantity Market Share by Manufacturer in 2022
- Figure 19. Global Bifacial PERC Cell Consumption Value Market Share by Manufacturer in 2022
- Figure 20. Producer Shipments of Bifacial PERC Cell by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 21. Top 3 Bifacial PERC Cell Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Top 6 Bifacial PERC Cell Manufacturer (Consumption Value) Market Share in 2022
- Figure 23. Global Bifacial PERC Cell Sales Quantity Market Share by Region (2018-2029)
- Figure 24. Global Bifacial PERC Cell Consumption Value Market Share by Region



(2018-2029)

Figure 25. North America Bifacial PERC Cell Consumption Value (2018-2029) & (USD Million)

Figure 26. Europe Bifacial PERC Cell Consumption Value (2018-2029) & (USD Million)

Figure 27. Asia-Pacific Bifacial PERC Cell Consumption Value (2018-2029) & (USD Million)

Figure 28. South America Bifacial PERC Cell Consumption Value (2018-2029) & (USD Million)

Figure 29. Middle East & Africa Bifacial PERC Cell Consumption Value (2018-2029) & (USD Million)

Figure 30. Global Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 31. Global Bifacial PERC Cell Consumption Value Market Share by Type (2018-2029)

Figure 32. Global Bifacial PERC Cell Average Price by Type (2018-2029) & (US\$/Unit)

Figure 33. Global Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 34. Global Bifacial PERC Cell Consumption Value Market Share by Application (2018-2029)

Figure 35. Global Bifacial PERC Cell Average Price by Application (2018-2029) & (US\$/Unit)

Figure 36. North America Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 37. North America Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 38. North America Bifacial PERC Cell Sales Quantity Market Share by Country (2018-2029)

Figure 39. North America Bifacial PERC Cell Consumption Value Market Share by Country (2018-2029)

Figure 40. United States Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Canada Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Mexico Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 43. Europe Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 44. Europe Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 45. Europe Bifacial PERC Cell Sales Quantity Market Share by Country



(2018-2029)

Figure 46. Europe Bifacial PERC Cell Consumption Value Market Share by Country (2018-2029)

Figure 47. Germany Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. France Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. United Kingdom Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Russia Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Italy Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Asia-Pacific Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 53. Asia-Pacific Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 54. Asia-Pacific Bifacial PERC Cell Sales Quantity Market Share by Region (2018-2029)

Figure 55. Asia-Pacific Bifacial PERC Cell Consumption Value Market Share by Region (2018-2029)

Figure 56. China Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Japan Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Korea Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. India Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Southeast Asia Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Australia Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. South America Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 63. South America Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 64. South America Bifacial PERC Cell Sales Quantity Market Share by Country (2018-2029)



Figure 65. South America Bifacial PERC Cell Consumption Value Market Share by Country (2018-2029)

Figure 66. Brazil Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Argentina Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 68. Middle East & Africa Bifacial PERC Cell Sales Quantity Market Share by Type (2018-2029)

Figure 69. Middle East & Africa Bifacial PERC Cell Sales Quantity Market Share by Application (2018-2029)

Figure 70. Middle East & Africa Bifacial PERC Cell Sales Quantity Market Share by Region (2018-2029)

Figure 71. Middle East & Africa Bifacial PERC Cell Consumption Value Market Share by Region (2018-2029)

Figure 72. Turkey Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Egypt Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Saudi Arabia Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. South Africa Bifacial PERC Cell Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. Bifacial PERC Cell Market Drivers

Figure 77. Bifacial PERC Cell Market Restraints

Figure 78. Bifacial PERC Cell Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Bifacial PERC Cell in 2022

Figure 81. Manufacturing Process Analysis of Bifacial PERC Cell

Figure 82. Bifacial PERC Cell Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source



#### I would like to order

Product name: Global Bifacial PERC Cell Market 2023 by Manufacturers, Regions, Type and Application,

Forecast to 2029

Product link: https://marketpublishers.com/r/GB2F7B2D4995EN.html

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

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

Service:

info@marketpublishers.com

## **Payment**

First name:

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/GB2F7B2D4995EN.html">https://marketpublishers.com/r/GB2F7B2D4995EN.html</a>

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

Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

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

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

