



Global and China Photovoltaic Inverter Industry Report, 2010-2011

May 2011

This report

- ◆ **Analyzes the classification, technological development, and industry chain of photovoltaic inverter.**
- ◆ **Focuses on the status quo of global and China photovoltaic inverter market.**
- ◆ **Highlights the operation of key foreign and domestic enterprises.**

Please visit our website to order this report and find more information about other titles at **www.researchinchina.com**

Related Products

China Railway Locomotive and Rolling Stock Market Report, 2010-2011

Global and China Aeroengine Industry Report, 2010-2011

China Engineering Vehicle Industry Report, 2010

China Automatic Fare Collection (AFC) Machine Industry Report, 2010-2011

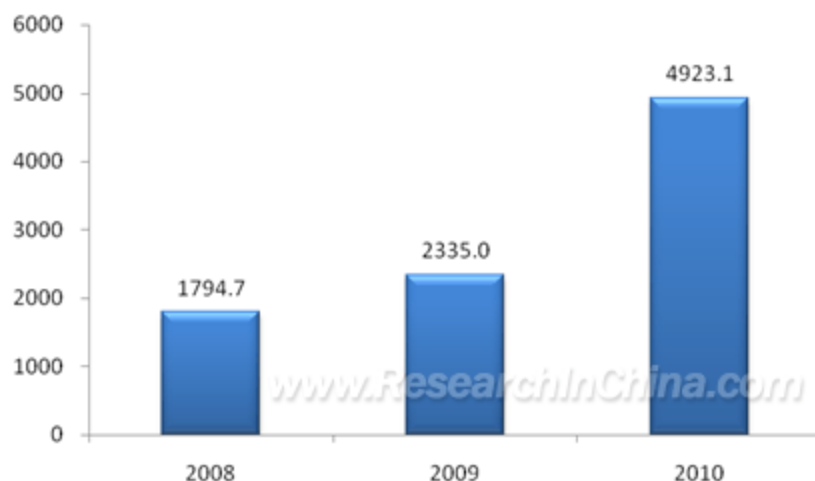
China Coal Mine Machinery Industry Report, 2010-2011

China Bulldozer Industry Report, 2010

Abstract

As the core component in the photovoltaic system, photovoltaic inverter has presented vigorous industry development and expanding market size in recent years. In 2010, the market size of global photovoltaic inverter industry registered EUR 4.923 billion, up 110.8% year-on-year.

Market Size of Global Photovoltaic Inverter Industry, 2008-2010 (EUR mln)



Source: SMA, ResearchInChina

In 2010, German manufacturers still dominated the photovoltaic inverter market in the world. SMA, the largest photovoltaic inverter manufacturer worldwide, accounted for over 39% of the global shipment. Meanwhile, shipments of North America and Asia revealed rising trend. Thanks to the rapid development of its photovoltaic inverter industry over the years, China has become one of the key manufacturing countries for photovoltaic inverter.

Domestic manufacturers in the Chinese market include Sungrow, KSTAR, ZOF, EHE and Surpass Sun, and foreign Manufacturers consist of SMA, KACO and SATCON.

Among domestic manufacturers, Sungrow, the key photovoltaic inverter supplier for Golden Sun Project in China, enjoys the largest production scale, providing 60%-70% of the Project with photovoltaic inverters annually. KSTAR and RONGXIN started mass production in 2010. The capacity of KSTAR reached 2,180 sets per year, among which 2,000 sets were small power inverters and 180 sets were high power inverters.

Additionally, Northern Electric & Power, HESHUN ELECTRIC and KEHUA HENGSHENG are actively conducting R&D or pilot production of solar inverters.

As for foreign companies, SMA, Satcon, Kaco are among the enterprises that hold relatively large market shares. Compared with their counterparts in China, products of foreign companies possess advantages in conversion efficiency and stability. However, for foreign manufacturers, the high production cost and inaccessible after-sale service caused by the mode of operation through agencies have led to their unsatisfactory development in the Chinese market.

Hence, foreign manufacturers have started the construction of production bases in China in recent years. For instance, AE and SGEG started cooperative production in Dec. 2009; Satcon initiated production and assembly of 500 KW PowerGate Plus solar PV inverters through GCL Solar in Oct. 2010. manufacturer under CSR.

1. Overview of Photovoltaic Inverter

- 1.1 Introduction of PV Inverter
- 1.2 Classification of PV Inverter
- 1.3 Technological Development Of PV Inverter
 - 1.3.1 History of Technology Development
 - 1.3.2 Trend of Product Development
- 1.4 Industry Chain of Photovoltaic Inverter
 - 1.4.1 Raw Materials in the Upstream
 - 1.4.2 Photovoltaic Inverter Manufacturers in the Midstream
 - 1.4.3 Application Fields in the Downstream

2. Status Quo of Global Photovoltaic Inverter Market

- 2.1 Status Quo
 - 2.1.1 Sales
 - 2.1.2 Shipment
 - 2.1.3 Price
- 2.2 Supply & Demand
 - 2.2.1 Supply
 - 2.2.2 Demand Forecast
- 2.3 Market Structure
 - 2.3.1 Manufacturer
 - 2.3.2 Consumer Countries and Characteristics
 - 2.3.3 Distribution of Application

3. Status Quo of China Photovoltaic Inverter Industry

- 3.1 Market Size
- 3.2 Demand Forecast
- 3.3 Development Characteristics
- 3.4 Key Enterprises

4. Key Foreign Enterprises

- 4.1 SMA
 - 4.1.1 Profile
 - 4.1.2 Operation
 - 4.1.3 Business in China
- 4.2 POWER-ONE
 - 4.2.1 Profile
 - 4.2.2 Operation
 - 4.2.3 Business in China
- 4.3 KACO
 - 4.3.1 Profile
 - 4.3.2 Business in China
- 4.4 FRONIUS
 - 4.4.1 Profile
 - 4.4.2 Business in China
- 4.5 SIEMENS
 - 4.5.1 Profile
 - 4.5.2 Business in China
- 4.6 SPUTNIK ENGINEERING

4.7 SATCON

- 4.7.1 Profile
- 4.7.2 Operation
- 4.7.3 Business in China
- 4.8 AE
 - 4.8.1 Profile
 - 4.8.2 Operation
 - 4.8.3 Business in China

5. Key Domestic Enterprises

- 5.1 RONGXIN
- 5.2 JIUZHOU ELECTRIC
- 5.3 KSTAR
- 5.4 KEHUA HENGSHENG
- 5.5 GUANGDIAN ELECTRIC
- 5.6 HESHUN ELECTRIC
- 5.7 SUNGROW
- 5.8 CLOU
- 5.9 CORONA
- 5.10 FIRST SECOND
- 5.11 Others
 - 5.11.1 ZHICHENG CHAMPION
 - 5.11.2 ZOF
 - 5.11.3 BOS
 - 5.11.4 XIHE SOLAR
 - 5.11.5 JINGHEN
 - 5.11.6 NORTHERN ELECTRIC & POWER
 - 5.11.7 JUNENG
 - 5.11.8 EVER-SOLAR
 - 5.11.9 EHE
 - 5.11.10 SURPASS SUN

- 
- Functions of Inverter
 - Principle of Photovoltaic Off-grid System
 - Principle of Photovoltaic Grid-connected System
 - Technological Development of Inverter
 - Technological Development of PV Inverter
 - Impact of Shield on Generating Electricity
 - Industry Chain of Photovoltaic Inverter
 - Cost Structure of String Inverter
 - Major Application Fields of Photovoltaic Generation Inverter in China
 - Sales of Photovoltaic Inverter Worldwide, 2006-2010
 - Shipments of Solar Inverter Worldwide, 2008-2010
 - Distribution of Photovoltaic Inverter Shipments by Country, 2010
 - Solar Inverter Price in the German Market, Jan.- Oct. 2010
 - Key Photovoltaic Inverter Capacity Planning Worldwide, 2009-2011
 - Demand for Photovoltaic Inverter Worldwide, 2011-2014E
 - Global Major Suppliers of Photovoltaic Inverter
 - Distribution of Market Share of Key Solar Inverter Manufacturers, 2010
 - Distribution of Key Consumer Countries of Photovoltaic Inverter Worldwide, 2010
 - Installation of Solar Energy System by Country
 - Distribution of Global Photovoltaic Inverter Application System, 2010
 - Market Shares of Photovoltaic Inverter by Type, 2010
 - Market Capacity of Photovoltaic Inverter in China, 2006-2010
 - Market Size of Photovoltaic Inverter in China, 2006-2010
 - Newly Increased Installed Capacity of Photovoltaic Inverter in China, 2011-2014E
 - Market Size of Photovoltaic Inverter in China, 2011-2014E

- 
- Photovoltaic Inverter Technology Comparison: Domestic vs. Overseas
 - Product Classification of Leading Foreign Enterprises by Technology
 - Capacities of Key Photovoltaic Inverter Enterprises in China
 - Selected Inverter Enterprises in the Golden Sun Project, 2010
 - Foreign Inverter Enterprises in the Inverter Market
 - Business Structure of SMA
 - Number of Employees of SMA, 2006-2010
 - Market Share of SMA in the Global Photovoltaic Market, 2008-2010
 - Sales of SMA, 2006-2010
 - Partial Projects of SMA in China
 - Number and Structure of Employees of Power-One, 2010
 - Operating Income of Power-One, 2008-2010
 - Operating Income of Satcon, 2008-2010
 - Operating Income of Satcon by Region, 2008-2010
 - Sales of AE by Region, 2008-2010
 - Sales of AE in the Chinese Market, 2008-2010
 - Operating Income and Net Income of Rongxin Power Electronic Co., Ltd, 2008-2010
 - Order Intake of Rongxin Power Electronic Co., Ltd, 2006-2010
 - Order Backlog of Rongxin Power Electronic Co., Ltd, 2008-2010
 - Orders of Rongxin Power Electronic Co., Ltd by Product, 2010
 - Employee Structure of Sichuan Jiuzhou Electric Group Co., Ltd, 2010
 - Operating Income and Net Income of Sichuan Jiuzhou Electric Group Co., Ltd, 2008-2010
 - Revenue and Gross Margin of Sichuan Jiuzhou Electric Group Co., Ltd by Product, 2010
 - Inverter R&D of Sichuan Jiuzhou Electric Group Co., Ltd, 2009-2011
 - Employee Structure of KSTAR, 2010

- 
- Operating Income and Net Income of KSTAR, 2008-2010
 - Revenue and Gross Margin of KSTAR by Product, 2010
 - Subsidiaries Engaged in Inverter Business of KSTR
 - Power, Operating Mode and Applied Range of Key Photovoltaic Inverter Products of KSTAR
 - Photovoltaic Inverter Capacity of KSTAR, 2011
 - Photovoltaic Inverter R&D Schedule of KSTAR by the End of 2010
 - Employee Structure of Xiamen Kehua Hengsheng Co., Ltd., 2010
 - Operating Income and Net Income of Xiamen Kehua Hengsheng Co., Ltd., 2008-2010
 - Revenue and Gross Margin of Xiamen Kehua Hengsheng Co., Ltd. by Product, 2010
 - Operating Income and Net Income of Guangdian Electric, 2008-2010
 - Operating Income and Net Income of Heshun Electric, 2008-2010
 - Income Forecast of Energy Saving Product/Photovoltaic Inverter of Heshun Electric
 - Overseas Companies of Sungrow Power Supply Co., Ltd
 - Operation of Shenzhen Clou Electronics Co., Ltd, 2008-2010
 - Development History of PV Inverter Business of Beijing Corona Science & Technology Co., Ltd.
 - Photovoltaic Inverter Products of Beijing Corona Science & Technology Co., Ltd.

You can place your order in the following alternative ways:

1. Order online at www.researchinchina.com
2. Fax order sheet to us at fax number: +86 10 82601570
3. Email your order to: report@researchinchina.com
4. Phone us at +86 10 82600828/ 82600893

Party A:			
Name:			
Address:			
Contact Person:		Tel	
E-mail:		Fax	

Party B:			
Name:	Beijing Waterwood Technologies Co., Ltd (ResearchInChina)		
Address:	Room 1008, A2, Tower A, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080		
Contact Person:	Liao Yan	Phone:	86-10-82600828
E-mail:	report@researchinchina.com	Fax:	86-10-82601570
Bank details:	Beneficial Name: Beijing Waterwood Technologies Co., Ltd Bank Name: Bank of Communications, Beijing Branch Bank Address: NO.1 jinxiyuan shijicheng, Landianchang, Haidian District, Beijing Bank Account No #: 110060668012015061217 Routing No #: 332906 Bank SWIFT Code: COMMCNSHBJG		

Title	Format	Cost
Total		

Choose type of format

Hard copy2000 USD
 PDF (Single user license)1900 USD
 PDF (Enterprisewide license).....3000 USD

※ Reports will be dispatched immediately once full payment has been received.
 Payment may be made by wire transfer or credit card via Paypal.