

# **PV Junction Box Technology and Market Forecast (2008~2015F)**

<https://marketpublishers.com/r/P86C78778DBEN.html>

Date: January 2012

Pages: 190

Price: US\$ 3,450.00 (Single User License)

ID: P86C78778DBEN

## **Abstracts**

2012 PV junction box set market size estimated to be 2.3 trillion won

Technology trend and major issues of PV junction box by type (silicon, thin film, BIPV, smart module)

Technology trend analysis of junction box by major component

Major junction box, cable and connector industry trend and production cost analysis by company type

Global PV junction box set market forecast (2008~2015F)

Junction box including many other different uses already forms a large scale industry. The global market size of PV junction box was 750 billion won in 2009. The market is expected to increase almost twice to a size of 1.4 trillion won in 2012 this year. The junction box market is expected to greatly expand if the PV market sustains its growth.

This report contents includes core theory of PV junction box, technology trend and representative product of major companies. The report not only contains information about junction boxes which are already in use but also covers features and technology trend of the new smart junction box. In addition the report provides industry trend and market forecast for solar cell junction box, cable and connector manufactures.

## Contents

### **1. CLASSIFICATION OF JUNCTION BOX**

- 1.1. PV Junction Box for General Silicon PV Module
- 1.2. PV Junction Box for Thin Film PV Module
- 1.3. PV Junction Box for BIPV Solar Module
- 1.4. PV Junction Box for Smart PV Module

### **2. OPERATING PRINCIPLE**

- 2.1. How Traditional PV Junction Box Works
- 2.2. Basic Operation Principles of Smart Junction Box

### **3. RELIABILITY AND CERTIFICATION OF JUNCTION BOX**

- 3.1. Reliability of Junction Box
  - 3.1.1. Structure and Material of Junction Box
    - 3.1.1.1 Plastic insulation material
    - 3.1.1.2 Bypass diode
    - 3.1.1.3 Internal live metal parts
    - 3.1.1.4 PV cable
    - 3.1.1.5 Material for sealing
  - 3.1.2. Structure and Material of Connector
    - 3.1.2.1 Plastic Insulation Material
    - 3.1.2.2 Metal conductor
    - 3.1.2.3 Sealing and waterproof material
  - 3.1.3. Selection of Junction Box
- 3.2. Certification of Junction Box
  - 3.2.1. Test Standard
  - 3.2.2. Test Process

### **4. TECHNOLOGY TREND**

- 4.1. Junction Box
  - 4.1.1. Low Cost
  - 4.1.2. General Junction Box
  - 4.1.3. Smart Junction Box
  - 4.1.4. Robot Installed Junction Box

## 4.2. Cable

4.2.1. Approved by TUV-UL

4.2.2. Low Cost

4.2.3. Low Resistance

## 4.3. Connector

4.3.1. Standardization

4.3.2. General Standard for European and the United Standard

4.3.3. Small in Size

## 4.4. Solar Power Inverter

4.4.1. Power Inverter

4.4.2. Micro Inverter

## 5. COST ANALYSIS

5.1. QC Solar-Smartbox Series

5.2. Tyco-Medium Junction Box

5.3. Renhe-PV RH 701

5.4. Yukita-YJB 16

5.5. Multi Contact-Westlake

## 6. GLOBAL TECHNOLOGY AND BUSINESS TREND BY MAKER

### 6.1. Junction Box

6.1.1. Yukita

6.1.2. Molex

6.1.3. Tyco Electronics

6.1.4. FPE Fischer

6.1.5. QC Solar

6.1.6. Dongjin S&C

6.1.7. Tonglin Electrics

6.1.8. SUNCON PV Technology

6.1.9. Spelsberg

6.1.10. Renhe

6.1.11. Ningbo Zhongxi Photovoltaic

6.1.12. Jinye Photovoltaic Tehcnology

6.1.13. Langri New Energy

6.1.14. Multi-Contact

6.1.15. JZ\*\* version

### 6.2. Cable

- 6.2.1. Baohing
- 6.2.2. BizLink
- 6.2.3. Bost
- 6.2.4. Changshu Honglin Wire & Cable
- 6.2.5. General Cable
- 6.2.6. Huber & Suher
- 6.2.7. Byson
- 6.3. Connector
  - 6.3.1. Zhilei Trading
  - 6.3.2. Yihong Photovoltaic Technology
  - 6.3.3. TZJX
  - 6.3.4. TH Solar
  - 6.3.5. Sunlont
  - 6.3.6. Sunter & NBZH
  - 6.3.7. SUNCON PV Technology
  - 6.3.8. HTE
  - 6.3.9. GZX PV
- 6.4. Micro Inverter
  - 6.4.1 Enphase Energy
  - 6.4.2. Solarbridge Tech.
  - 6.4.3. Enecsys
  - 6.4.4. HAQ Solar
  - 6.4.5. I-Energy
  - 6.4.6. Grace solar
  - 6.4.7. Altenergy
  - 6.4.8. INVOLAR

## **7. JUNCTION BOX MARKET FORECAST**

- 7.1. Global Market Forecast for Solar Modules Production (2008~2015F)
- 7.2. Market Forecast for Junction Box (2008~2015F)
- 7.3. Junction Box Price Forecast (2008~2015F)
- 7.4. Junction Box Capacity & Production by Company (2008~2015F)
- 7.5. Supply and Demand Forecast (2008~2015F)

## **8. INDEX**

- 8.1 Figure
- 8.2 Table

## I would like to order

Product name: PV Junction Box Technology and Market Forecast (2008~2015F)

Product link: <https://marketpublishers.com/r/P86C78778DBEN.html>

Price: US\$ 3,450.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P86C78778DBEN.html>

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

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

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

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