

# Certificate

Registration No.: PV 50163563

Page 1

Report No.: 12605818 001

**License Holder:**  
**Hyundai Heavy Industries Co., Ltd.**  
1, Jeonha-dong,  
Dong-gu, Ulsan,  
682-792, Rep. of Korea

**Product:**  
PV Module  
Type: HiS-MxxxSF, HiS-MyyySG

xxx = 182, 184, 188, 191, 194, 197, 200, 203,  
206 or 209

yyy = 200, 203, 206, 209, 212, 215, 218, 221,  
224, 225, 227, 230, 233, 236, 239 or 242

**Manufacturing Plant:**  
**Hyundai Heavy Industries Co., Ltd.**  
169, Daejang-ri, Soi-myeon,  
Eumseong-kun, Chungcheongbuk-do,  
369-872, Rep. of Korea

## Basis:

**IEC 61215:2005**  
**EN 61215:2005**  
"Crystalline silicon terrestrial  
photovoltaic (PV) modules - Design  
qualification and type approval"

**Factory Inspection**  
To document the consistent quality of  
the product factory inspections are  
performed periodically.



- **Periodic inspection**
- **Qualified, IEC 61215**
- **Safety tested, IEC 61730**

## Remarks:

- The details of the factory inspection are documented in report no. 21207320.
- Mechanical load at 5400 Pa has been performed.

## Conditions:

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate has a validity of 5 years counting from date of issue.**



**Certification body**

  
Dipl.-Ing. W. Herlitschke

Yokohama, 2 September 2009

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

# Certificate

Registration No.: PV 50163564

Page 1

Report No.: 12605818 002

**License Holder:**

**Hyundai Heavy Industries Co., Ltd.**

1, Jeonha-dong,  
Dong-gu, Ulsan,  
682-792, Rep. of Korea

**Product:**

PV Module

Type: HiS-MxxxSF, HiS-MyyySG

xxx = 182, 184, 188, 191, 194, 197, 200, 203,  
206 or 209

yyy = 200, 203, 206, 209, 212, 215, 218, 221,  
224, 225, 227, 230, 233, 236, 239 or 242

**Manufacturing Plant:**

**Hyundai Heavy Industries Co., Ltd.**

169, Daejang-ri, Soi-myeon,  
Eumseong-kun, Chungcheongbuk-do,  
369-872, Rep. of Korea

**Basis:**

- IEC 61730-1:2004  
IEC 61730-2:2004  
EN 61730-1:2007  
EN 61730-2:2007  
"Photovoltaic (PV) module safety  
qualification"

- Factory Inspection**  
To document the consistent quality of  
the product factory inspections are  
performed periodically.



- **Periodic inspection**
- **Qualified, IEC 61215**
- **Safety tested, IEC 61730**

**Remarks:**

- IEC EN 61730 consists of part 1 ( Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfil the requirements of Application Class A (Safety Class II ). They may be used in PV plants at a maximum system voltage ( $V_{oc}$  at STC) of up to **1000 VDC**.
- The fire test (IEC 61730-2 / MST 23) was not performed.
- The details of the factory inspection are documented in report no. 21207320.

**Conditions:**

The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.

**The certificate has a validity of 5 years counting from date of issue.**



**Certification body**

  
Dipl.-Ing. W. Herlitschke

Yokohama, 2 September 2009

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan