

# Certificate

Registration No.: PV 50172393

Page 1

Report No.: 12604436 012

**License Holder:**  
**Frankfurt CS Solar GmbH**  
Frankfurter str. 80-82  
D-65760 Eschborn  
Germany

**Product:**  
PV Module  
Type: FS(TW)xxx(23)P  
FS(TW)yyy(28)P  
FS(TW)zzz(26)P

**Manufacturing Plant:**  
**0002-12604436 002**

xxx = 150, 155, 160, 165, 170, 175, 180, 185 or 190  
yyy = 180, 185, 190, 195, 200, 205, 210, 215, 220,  
225, 230, 235 or 240  
zzz = 180, 185, 190, 195, 200, 205, 210 or 215

**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 (Voc at STC) of up to 1000 VDC.
- The fire test (IEC 61730-2 / MST 23) was not 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 is valid until 21 June 2014.**



**Certification body**

  
Dipl.-Ing. W. Herlitschke

Yokohama, 05 January 2010

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

# Certificate

Registration No.: PV 50172391

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Report No.: 12604436 011

**License Holder:**  
**Frankfurt CS Solar GmbH**  
Frankfurter str. 80-82  
D-65760 Eschborn  
Germany

**Product:**  
PV Module  
Type: FS(TW)xxx(23)P  
FS(TW)yyy(28)P  
FS(TW)zzz(26)P

**Manufacturing Plant:**  
**0002-12604436 001**

xxx = 150, 155, 160, 165, 170, 175, 180, 185 or 190  
yyy = 180, 185, 190, 195, 200, 205, 210, 215, 220,  
225, 230, 235 or 240  
zzz = 180, 185, 190, 195, 200, 205, 210 or 215

**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**

**Conditions:**

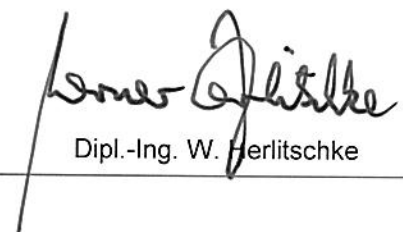
The product test is voluntarily according to technical regulations. Any change of the design, materials, components or processing may require the repetition of some of the qualification tests in order to retain type approval.  
**The certificate is valid until 21 June 2014.**



Yokohama, 05 January 2010

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

**Certification body**



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