

# Certificate

Registration No.: PV 50164700

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Report No.: 12606412 001

**License Holder:**  
**Hangzhou Amplesun Solar Technology Co., Ltd.**  
M14-19-1, M14-19-2,  
Hangzhou Export Processing Zone,  
Hangzhou E.T.D Zone, 310018, P.R. China

**Product:**  
PV Module  
Type: ASF90, ASF100

**Manufacturing Plant:**  
**Hangzhou Amplesun Solar Technology Co., Ltd.**  
M14-19-1, M14-19-2,  
Hangzhou Export Processing Zone,  
Hangzhou E.T.D Zone, 310018, P.R. China

**Basis:**

**IEC 61646:2008**  
**EN 61646:2008**  
"Thin-film 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 61646**
- **Safety tested, IEC 61730**

**Remarks:**

The details of the factory inspection are documented in report no. 12606118.

**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, 1 October 2009

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

# Certificate

Registration No.: PV 50164701

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Report No.: 12606412 007

**License Holder:**  
**Hangzhou Amplesun Solar Technology Co., Ltd.**  
M14-19-1, M14-19-2,  
Hangzhou Export Processing Zone,  
Hangzhou E.T.D Zone, 310018, P.R. China

**Product:**  
PV Module  
Type: ASF90, ASF100

**Manufacturing Plant:**  
**Hangzhou Amplesun Solar Technology Co., Ltd.**  
M14-19-1, M14-19-2,  
Hangzhou Export Processing Zone,  
Hangzhou E.T.D Zone, 310018, P.R. China

**Basis:**

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



- Periodic inspection
- Qualified, IEC 61646
- Safety tested, IEC 61730

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

**Remarks:**

- Change of maximum system voltage (Voc at STC).
- 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.
- The details of the factory inspection are documented in report no. 12606118.

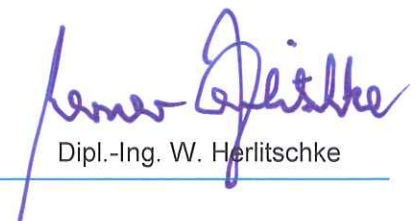
**Conditions:**

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 the date of issue stated on page 1.**



**Certification body**



Dipl.-Ing. W. Herlitschke

Yokohama, 5 January 2010

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