

Certificate

Registration No.: PV 50251137

Page 1

Report No.: 15043399.026

License Holder:

Hanwha Solarone (Qidong) Co., Ltd.
No. 888 Linyang Road,
Qidong City, Jiangsu Province 226200
P.R. China

Product:

PV Modules

Type:

With 5" mono c-Si cell:
SF160-24-1Mxxx(xxx=150-195, in steps of 5, 72 cells)
SF160-24-1MxxxB(xxx=150-195, in steps of 5, 72 cells)
SF160-24-1MxxxL(xxx=150-215, in steps of 5, 72 cells)
SF160-24-1MxxxE(xxx=150-215, in steps of 5, 72 cells)
SF160-24-1MxxxL-B(xxx=150-215, in steps of 5, 72 cells)
SF160-24-1MxxxE-B(xxx=150-215, in steps of 5, 72 cells)
SF160-24-1MxxxL-W(xxx=150-215, in steps of 5, 72 cells)
SF160-24-1MxxxE-W(xxx=150-215, in steps of 5, 72 cells)
HSL72M5-PA-2-xxx (xxx=150-215, in steps of 5, 72 cells)
HSL72M5-PB-2-xxx (xxx=150-215, in steps of 5, 72 cells)

Manufacturing Plant:

Hanwha SolarOne (Qidong) Co. Ltd.
No. 888 Linyang Road,
Qidong City, Jiangsu Province 226200
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"

- Factory Inspection**

To document the consistent quality of the product, factory inspections are performed periodically.

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50251135 Page 1.
- The above listed PV modules fulfil the requirements of Application **Class A (Class II acc. to IEC 61140)**. 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.

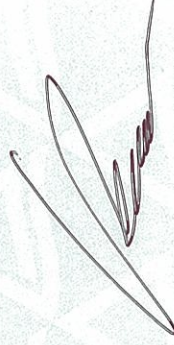
Conditions:

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 has a validity of 5 years counting from the date of issue.



Certification body



29 March 2013

Dipl.-Ing. Gerd Reimann



www.tuv.com
ID 0000022834

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PV Modules
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- IEC 61730-1:2004
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ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50251135 Page 1.
- The above listed PV modules fulfil the requirements of Application **Class A (Class II acc. to IEC 61140)**. 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 performed.
- The above listed PV modules fulfil the requirements of fire rating class C.

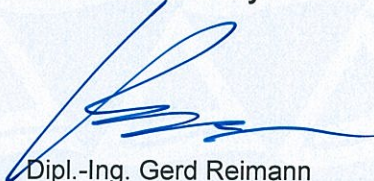
Conditions:

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 28 March 2018.



Certification body



Dipl.-Ing. Gerd Reimann

21 June 2013