

Certificate

Registration No.: PV 50254253

Page 1

Report No.: 15060471.001

License Holder:

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

Manufacturing Plant:

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

Product:

PV Modules

Type:

With 6" mono c-Si cell:

SF260-36-1Mxxx (xxx=260-295, in steps of 5, 72 cells)
SF220-30-1Mxxx (xxx=200-255, in steps of 5, 60 cells)
SF190-27-1Mxxx (xxx=170-225, in steps of 5, 54 cells)
SF260-36-1MxxxL (xxx=260-335, in steps of 5, 72 cells)
SF220-30-1MxxxL (xxx=200-275, in steps of 5, 60 cells)
HSL72M6-HA-1-xxx, HSL72M6-HA-1-xxxB,
HSL72M6-HA-1-xxxW, HSL72M6-HA-1-xxxE,
HSL72M6-HB-1-xxx, HSL72M6-HB-1-xxxB,
HSL72M6-HB-1-xxxW, HSL72M6-HB-1-xxxE
(xxx=260-335, in steps of 5, 72 cells)
HSL60M6-HA-1-xxx, HSL60M6-HA-1-xxxB,
HSL60M6-HA-1-xxxW, HSL60M6-HA-1-xxxE,
HSL60M6-HB-1-xxx, HSL60M6-HB-1-xxxB,
HSL60M6-HB-1-xxxW, HSL60M6-HB-1-xxxE
(xxx=200-275, in steps of 5, 60 cells)

Continued on page 2

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.



www.tuv.com
ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 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 is valid until 06 May 2018.

07 May 2013

Certification body

Dipl.-Ing. Bernd Scheierer



Certificate

Registration No.: PV 50254253

Page 2

Report No.: 15060471.001

License Holder:

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

Product:

PV Modules

Type:

Continuation of page 1

HSL48M6-HA-1-xxx, HSL48M6-HA-1-xxxB,
HSL48M6-HA-1-xxxW, HSL48M6-HA-1-xxxE,
HSL48M6-HB-1-xxx, HSL48M6-HB-1-xxxB,
HSL48M6-HB-1-xxxW, HSL48M6-HB-1-xxxE
(xxx=190-220, in steps of 5, 48 cells)

HSL42M6-HA-1-xxx, HSL42M6-HA-1-xxxB,
HSL42M6-HA-1-xxxW, HSL42M6-HA-1-xxxE,
HSL42M6-HB-1-xxx, HSL42M6-HB-1-xxxB,
HSL42M6-HB-1-xxxW, HSL42M6-HB-1-xxxE
(xxx=165-195, in steps of 5, 42 cells)

HSL36M6-HA-1-xxx, HSL36M6-HA-1-xxxB,
HSL36M6-HA-1-xxxW, HSL36M6-HA-1-xxxE,
HSL36M6-HB-1-xxx, HSL36M6-HB-1-xxxB,
HSL36M6-HB-1-xxxW, HSL36M6-HB-1-xxxE
(xxx=140-165, in steps of 5, 36 cells)

Continued on page 3

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.



www.tuv.com
ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 2.
- 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 is valid until 06 May 2018.

07 May 2013

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Page 3

Report No.: 15060471.001

License Holder:

Hanwha SolarOne (Qidong) Co., Ltd.
No. 888 Linyang Road,
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P. R. China

Product:

PV Modules

Type:

Continuation of page 2

With 6" poly c-Si cell:

SF260-36-1Pxxx (xxx=250-300, in steps of 5, 72 cells)

SF220-30-1Pxxx (xxx=200-255, in steps of 5, 60 cells)

SF190-27-1Pxxx (xxx=170-225, in steps of 5, 54 cells)

SF260-36-1PxxxL, SF260-36-1PxxxE

(xxx=250-325, in steps of 5, 72 cells)

SF220-30-1PxxxL, SF220-30-1PxxxE

(xxx=200-270, in steps of 5, 60 cells)

SF190-27-1PxxxL, SF190-27-1PxxxE

(xxx=170-245, in steps of 5, 54 cells)

HSL72P6-PA-1-xxx, HSL72P6-PA-1-xxxB,

HSL72P6-PA-1-xxxW, HSL72P6-PA-1-xxxE,

HSL72P6-PB-1-xxx, HSL72P6-PB-1-xxxB,

HSL72P6-PB-1-xxxW, HSL72P6-PB-1-xxxE

(xxx=250-325, in steps of 5, 72 cells)

Continued on page 4

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.



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ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 3.
- 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.

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07 May 2013

Certification body

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Page 4

Report No.: 15060471.001

License Holder:

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

Product:

PV Modules

Type:

Continuation of page 3

HSL60P6-PA-1-xxx, HSL60P6-PA-1-xxxB,
HSL60P6-PA-1-xxxW, HSL60P6-PA-1-xxxE,
HSL60P6-PB-1-xxx, HSL60P6-PB-1-xxxB,
HSL60P6-PB-1-xxxW, HSL60P6-PB-1-xxxE
(xxx=200-270, in steps of 5, 60 cells)
HSL54P6-PA-1-xxx, HSL54P6-PA-1-xxxB,
HSL54P6-PA-1-xxxW, HSL54P6-PA-1-xxxE,
HSL54P6-PB-1-xxx, HSL54P6-PB-1-xxxB,
HSL54P6-PB-1-xxxW, HSL54P6-PB-1-xxxE
(xxx=170-245, in steps of 5, 54 cells)
HSL48P6-PA-1-xxx, HSL48P6-PA-1-xxxB,
HSL48P6-PA-1-xxxW, HSL48P6-PA-1-xxxE,
HSL48P6-PB-1-xxx, HSL48P6-PB-1-xxxB,
HSL48P6-PB-1-xxxW, HSL48P6-PB-1-xxxE
(xxx=190-215, in steps of 5, 48 cells)
Continued on page 5

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.



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ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 4.
- 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 is valid until 06 May 2018.

Certification body



Dipl.-Ing. Bernd Scheirer

07 May 2013

Certificate

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Page 5

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License Holder:

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P. R. China

Manufacturing Plant:

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

Product:

PV Modules

Type:

Continuation of page 4

HSL42P6-PA-1-xxx, HSL42P6-PA-1-xxxB,
HSL42P6-PA-1-xxxW, HSL42P6-PA-1-xxxE,
HSL42P6-PB-1-xxx, HSL42P6-PB-1-xxxB,
HSL42P6-PB-1-xxxW, HSL42P6-PB-1-xxxE
(xxx=165-190, in steps of 5, 42 cells)

HSL36P6-PA-1-xxx, HSL36P6-PA-1-xxxB,
HSL36P6-PA-1-xxxW, HSL36P6-PA-1-xxxE,
HSL36P6-PB-1-xxx, HSL36P6-PB-1-xxxB,
HSL36P6-PB-1-xxxW, HSL36P6-PB-1-xxxE
(xxx=140-160, in steps of 5, 36 cells)

HSL72P6-PA-2-xxx, HSL72P6-PB-2-xxx
(xxx=250-300, in steps of 5, 72 cells)

HSL60P6-PA-2-xxx, HSL60P6-PB-2-xxx
(xxx=200-255, in steps of 5, 60 cells)

HSL54P6-PA-2-xxx, HSL54P6-PB-2-xxx
(xxx=170-225, in steps of 5, 54 cells)

Continued on page 6

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.



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ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 5.
- 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 is valid until 06 May 2018.

07 May 2013


Certification body
Dipl.-Ing. Bernd Scheirer



Certificate

Registration No.: PV 50254253

Page 6

Report No.: 15060471.001

License Holder:

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

Product:

PV Modules

Type:

Continuation of page 5

With 6" quasi-mono c-Si cell:

HSL72Q6-HA-1-xxx, HSL72Q6-HA-1-xxxB,
HSL72Q6-HA-1-xxxW (xxx=290, 295, 72 cells)
HSL60Q6-HA-1-xxx, HSL60Q6-HA-1-xxxB,
HSL60Q6-HA-1-xxxW (xxx=240, 245, 60 cells)
HSL48Q6-HA-1-xxx, HSL48Q6-HA-1-xxxB,
HSL48Q6-HA-1-xxxW (xxx=195, 200, 48 cells)
HSL42Q6-HA-1-xxx, HSL42Q6-HA-1-xxxB,
HSL42Q6-HA-1-xxxW (xxx=170, 175, 42 cells)
HSL36Q6-HA-1-xxx, HSL36Q6-HA-1-xxxB,
HSL36Q6-HA-1-xxxW (xxx=145, 150, 36 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.



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ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 6.
- 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 is valid until 06 May 2018.

07 May 2013

Certification body

Dipl.-Ing. Bernd Scheirer

TÜV Rheinland LGA Products GmbH, Tillystrasse 2, 90431 Nürnberg, Germany / Contact: + 49 221 806 2477 email: enerntest@de.tuv.com

Certificate

Registration No.: PV 50254253

Page 7

Report No.: 15060471.006

License Holder:

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

Product:

PV Modules

Type:

Same as Page 1

In addition:

With 6" poly c-Si cells:

HSL72P6-PB-1-xxxF (xxx=250-325, in steps of 5; 72 cells)

HSL60P6-PB-1-xxxF (xxx=200-270, in steps of 5; 60 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.



www.tuv.com
ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 7.
- 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.
- Extension to new model types.

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 06 May 2018.



Certification body



Dipl.-Ing. Gerd Reimann

21 June 2013

Certificate

Registration No.: PV 50254253

Page 8

Report No.: 15060471.007

License Holder:

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

Product:

PV Modules
Type:
Same as page 1 - 7

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.



www.tuv.com
ID 0000022834

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50254250 Page 1 - 7.
- 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.

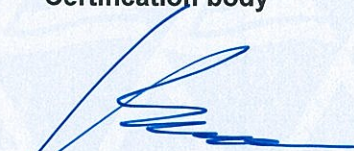
Conditions:

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 06 May 2018.



Certification body



Dipl.-Ing. Gerd Reimann

21 June 2013