

Certificate

Registration No.: PV 50290241

Page 1

Report No.: 15070730.001

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

With 6" poly c-Si cells:

TSM-xxxPEG5 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5.50 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG14 (xxx=280-340, in steps of 5, 72 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

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.



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ID 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body



Dipl.-Ing. (TU) Gerd Reimann

11 August 2014

Certificate



Registration No.: PV 50290241

Page 2

Report No.: 15070730.003

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules
Type:
Same as Page 1
In addition:
With 6" poly c-Si cells:
TSM-xxxPEG40 (xxx=160-175, in steps of 5, 40 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

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.



www.tuv.com
ID 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1 - 2.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body

Dipl.-Ing. (TU) Gerd Reimann

11 March 2015

Certificate

Registration No.: PV 50290241

Page 3

Report No.: 15070730.004

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 2

In addition:

With 6" poly c-Si cells:

TSM-xxxPEG5.40 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5.07 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5.47 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG40.40 (xxx=160-175, in steps of 5, 40 cells)

TSM-xxxPEG40.07 (xxx=160-175, in steps of 5, 40 cells)

TSM-xxxPEG40.47 (xxx=160-175, in steps of 5, 40 cells)

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.



www.tuv.com
ID 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1 - 3.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.

**Certification body**
Dipl.-Ing. (TU) Gerd Reimann

19 June 2015

Certificate

Registration No.: PV 50290241

Page 4

Report No.: 15070730.006

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules
Type:
Same as Page 1 - 3
In addition:
With 6" poly c-Si cells:
TSM-xxxPEG14(II) (xxx=300-360, in steps of 5, 72 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

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.



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ID 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1 - 4.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body



Dipl.-Ing. (TU) Gerd Reimann

21 September 2015

Certificate

Registration No.: PV 50290241

Page 5

Report No.: 15070730.009

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 4

In addition

With 8" poly c-Si cell:

TSM-xxxPEG14 07(II) (xxx=300-360, in steps of 5, 72 cells)

TSM-xxxPEG5(I) (xxx=280-300, in steps of 5, 60 cells)

TSM-xxxPEG5(I); TSM-xxxPEG5 07(I); TSM-xxxPEG5 40(II)

TSM-xxxPEG5 47(II); TSM-xxxPEG5 50(II)

(xxx=260-300, in steps of 5, 60 cells)

With 6" mono c-Si cell:

TSM-xxxDEG 4(I); TSM-xxxDEG14 07(II)

(xxx=325-375, in steps of 5, 72 cells)

TSM-xxxDEG5(II); TSM-xxxDEG5 07(II); TSM-xxxDEG5 40(I);

TSM-xxxDEG5 47(II); TSM-xxxDEG5 50(II)

(xxx=260-315, in steps of 5, 60 cells)

TSM-xxxDEG40(I); TSM-xxxDEG40 07(II)

TSM-xxxDEG40 40(II); TSM-xxxDEG40 47(II)

TSM-xxxDEG40 50(II) (xxx=180-200, in steps of 5, 40 cells)

Manufacturing Plant:

Changzhou Trina Yabang Solar
Energy Co., Ltd.
No. 6, Longyu West Road
Wujin High Tech Industrial Zone
Changzhou, Jiangsu Province
P. R. China

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.



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ID 0000136169

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1 - 5.
- Additional manufacturing plant see above.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body

Dipl.-Ing. (TU) Gerd Reimann

22 March 2016

Certificate



Registration No.: PV 50290241

Page 6

Report No.: 15070730.011

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 5

In addition:

With 6" poly c-Si cell:

TSM-xxxPEG14.07, TSM-xxxPEG14.40, TSM-xxxPEG14.47
(xxx=280-340, in steps of 5, 72 cells)

TSM-xxxPEG14.40(II), TSM-xxxPEG14.47(II)

(xxx=300-360, in steps of 5, 72 cells)

With 6" mono c-Si cell:

TSM-xxxDEG14.40(II), TSM-xxxDEG14.47(II)

(xxx=325-375, in steps of 5, 72 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

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.



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ID 0000039159

Remarks:

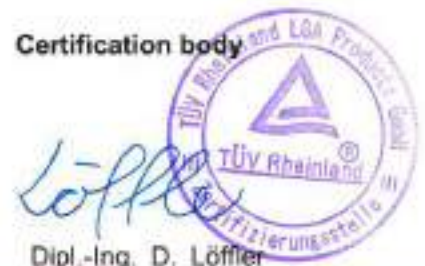
- Valid in conjunction with TÜV Rheinland certificate PV 50290244 Page 1 - 6.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.

Certification body



Dipl.-Ing. D. Löffler

02 June 2016

Certificate

Registration No.: PV 50290244

Page 1

Report No.: 15070731.001

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

With 6" poly c-Si cells:

TSM-xxxPEG5 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5 50 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG14 (xxx=280-340, in steps of 5, 72 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
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 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290241 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 **1500 VDC**.
- The fire test (IEC 61730-2 / MST 23) was performed.
- The above listed PV modules fulfil the requirements of fire rating class **A**.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body



Dipl.-Ing. (TU) Gerd Reimann

11 August 2014

Certificate

Registration No.: PV 50290244

Page 2

Report No.: 15070731.003

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1

In addition:

With 6" poly c-Si cells:

TSM-xxxPEG40 (xxx=160-175, in steps of 5, 40 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No.2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Basis:

- IEC 61730-1:2004+A1+A2
 - IEC 61730-2:2004+A1
 - EN 61730-1:2007+A1+A2
 - EN 61730-2:2007+A1
- "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 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290241 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 1500 VDC.
- The above listed PV modules fulfil the requirements of fire rating class A.
- New model names were introduced as above.
- Change
- Test Requirements: IEC 61730-1:2004; IEC 61730-2:2004; EN 61730-1:2007; EN 61730-2:2007
- Changed to: IEC 61730-1:2004+A1+A2; IEC 61730-2:2004+A1; EN 61730-1:2007+A1+A2; EN 61730-2:2007+A1
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body



Dipl.-Ing. (TU) Gerd Reimann

11 March 2015

Certificate

Registration No.: PV 50290244

Page 3

Report No.: 15070731.004

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 2

In addition:

With 6" poly c-Si cells:

TSM-xxxPEG5.40 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5.07 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG5.47 (xxx=230-290, in steps of 5, 60 cells)

TSM-xxxPEG40.40 (xxx=160-175, in steps of 5, 40 cells)

TSM-xxxPEG40.07 (xxx=160-175, in steps of 5, 40 cells)

TSM-xxxPEG40.47 (xxx=160-175, in steps of 5, 40 cells)

Basis:

- IEC 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"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 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290241 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 1500 VDC.
- The above listed PV modules fulfil the requirements of fire rating class A.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body


Dipl.-Ing. (TU) Gerd Reimann

19 June 2015

Certificate

Registration No.: PV 50290244

Page 4

Report No.: 15070731.006

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 3

In addition:

With 6" poly c-Si cells;

TSM-xxxPEG14(II) (xxx=300-360, in steps of 5, 72 cells)

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Basis:

- IEC 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
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 0000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290241 Page 1 - 4
- The above listed PV modules fulfill 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 1500 VDC.
- The above listed PV modules fulfill the requirements of fire rating class A.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.



Certification body



Dipl.-Ing. (TU) Gerd Reimann

21 September 2015

Certificate

Registration No.: PV 50290244

Page 5

Report No.: 15070731.009

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Manufacturing Plant:

Changzhou Trina Yabang Solar
Energy Co., Ltd.
No. 5, Longyu West Road
Wujin High-Tech Industrial Zone
Changzhou, Jiangsu Province
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 4

In addition:

With 6" poly c-Si cell:

TSM-xxxPEG14 07(II) (xxx=300-360, in steps of 5, 72 cells)

TSM-xxxPEG5(II) (xxx=260-300, in steps of 5, 60 cells)

TSM-xxxPEG5(II), TSM-xxxPEG5 07(II), TSM-xxxPEG5 4C(II)

TSM-xxxPEG5 47(II), TSM-xxxPEG5 50(II)

(xxx=260-300, in steps of 5, 50 cells)

With 6" mono c-Si cell:

TSM-xxxDEG 4(II), TSM-xxxDEG14 07(II)

(xxx=325-375, in steps of 5, 72 cells)

TSM-xxxDEG5(II), TSM-xxxDEG5 07(II), TSM-xxxDEG5 40(II)

TSM-xxxDEG5 47(II), TSM-xxxDEG5 50(II)

(xxx=260-315, in steps of 5, 50 cells)

TSM-xxxDEG40(II), TSM-xxxDEG40 07(II)

TSM-xxxDEG40 40(II), TSM-xxxDEG40 47(II)

TSM-xxxDEG40 50(II) (xxx=180-200, in steps of 5, 40 cells)

Basis:

- IEC 61730-1:2004+A1+A2
- IEC 61730-2:2004+A1
- EN 61730-1:2007+A1+A2
- EN 61730-2:2007+A1

'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 50290244 Page 1 - 5.
- The above listed PV modules fulfill the requirements of Application Class A (Class II acc. to IEC 61140). They may be used in PV plants at a maximum system voltage (V_{max} at STC) of up to 1800 VDC.
- The above listed PV modules fulfill the requirements of fire rating class A.
- Additional manufacturing plant: see above.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed in Attachment List of Factories.

Conditions:

The product list 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 obtain type approval.

The certificate is valid until 27 May 2018.



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ID: 0000000009



Certification body

Dipl.-Ing. (TU) Gerd Reimann

02 March 2018

Certificate



Registration No.: PV 50290244

Page 6

Report No.: 15070731.011

License Holder:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Manufacturing Plant:

Changzhou Trina Solar Energy Co., Ltd.
No. 2 Tian He Road
Electronics Park, New District
Changzhou, Jiangsu 213031
P. R. China

Product:

PV Modules

Type:

Same as Page 1 - 5

In addition:

With 6" poly c-Si cell:

TSM-xxxPEG14.07, TSM-xxxPEG14.40, TSM-xxxPEG14.47
(xxx=280-340, in steps of 5, 72 cells)

TSM-xxxPEG14.40(II), TSM-xxxPEG14.47(II)

(xxx=300-360, in steps of 5, 72 cells)

With 6" mono c-Si cell:

TSM-xxxDEG14.40(II), TSM-xxxDEG14.47(II)

(xxx=325-375, in steps of 5, 72 cells)

Basis:

- IEC 61730-1:2004+A1+A2
IEC 61730-2:2004+A1
EN 61730-1:2007+A1+A2
EN 61730-2:2007+A1
"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 000039159

Remarks:

- Valid in conjunction with TÜV Rheinland certificate PV 50290241 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 **1500 VDC**.
- The above listed PV modules fulfil the requirements of **fire rating class A**.
- New model names were introduced as above.
- This certificate includes further manufacturing plants as listed on Attachment List of Factories.

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 27 May 2018.

Certification body

Löffler

Dipl.-Ing. D. Löffler



02 June 2016