

Certificate

Registration No.: PV 60024187

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Report No.: 21208040-1

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

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

Product:
PV Modules
Type:

TSM-***DC01 (***= 155 to 185, in increments of 5)
with Trina 5" monocrystalline solar cells

TSM-***DC03 (***= 160 to 190, in increments of 5)
with Trina 6" monocrystalline solar cells
with Q-cells 6" monocrystalline solar 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.



- Qualified, IEC 61215
- Periodic Inspection

Remarks:

The details of the factory inspection are documented in report no. 153112628.

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.

Cologne, 9 February 2009



Dipl.-Ing. M. Adrian

Certificate

Registration No.: PV 60024802

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Report No.: 21208040-2

License Holder:

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

Manufacturing Plant

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

Product:

PV Modules

Type:

TSM-***DC01 (***= 155 to 185, in increments of 5)
with Trina 5" monocrystalline solar cells

TSM-***DC03 (***= 160 to 190, in increments of 5)
with Trina 6" monocrystalline solar cells
with Q-cells 6" monocrystalline solar cells

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.



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

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.
- The details of the factory inspection are documented in report no. 153112628.

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 9 February 2014.

Cologne, 1 April 2009



Dipl.-Ing. M. Adrian

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Registration No.: PV 60024802

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Report No.: 212108040-8

License Holder:

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

Product:

PV Modules

Type:

TSM-***DC01A

TSM-***DC01A.05

TSM-***DC01A.08

(*** = 170 to 205 in increments of 5)

Manufacturing plant:

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



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

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.
- The details of the factory inspection are documented in report no. 15036189.
- Change in cell technology.

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 9 February 2014.



Cologne, 2 December 2010

Dipl.-Ing. M. Adrian

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Registration No.: PV 60024802

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Report No.: 212108040-6

License Holder:

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

Product:

PV Modules

Type:

TSM-***DC80
(*** = 180 to 210 in increments of 5)

Manufacturing plant:

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



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

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.
- The details of the factory inspection are documented in report no. 15036189.
- Additional type designation see above.

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 9 February 2014.

Cologne, 6 October 2010



Dipl.-Ing. M. Adrian

Certificate

Registration No.: PV 60025674

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Report No.: 15032177.001

License Holder:

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

Manufacturing Plant

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

Product:

PV Modules

Type:

TSM-210DC05, TSM-215DC05, TSM-220DC05
TSM-225DC05, TSM-230DC05, TSM-235DC05
TSM-240DC05, TSM-245DC05, TSM-250DC05
(6" mono with 60 cells, 1650 x 992 x 46)
TSM-200PC05, TSM-205PC05, TSM-210PC05
TSM-215PC05, TSM-220PC05, TSM-225PC05
TSM-230PC05, TSM-235PC05, TSM-240PC05
(6" poly with 60 cells, 1650 x 992 x 46)
TSM-160PC03, TSM-165PC03, TSM-170PC03
TSM-175PC03, TSM-180PC03, TSM-185PC03
TSM-190PC03
(6" poly with 48 cells, 1316 x 992 x 46)

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.



- Qualified, IEC 61215
- Periodic Inspection

Remarks:

The details of the factory inspection are documented in report no. 153112628.

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.



Cologne, 19 June 2009

Dipl.-Ing. M. Adrian

Certificate

Registration No.: PV 60026065

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Report No.: 15032852.001

License Holder:

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

Manufacturing Plant

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

Product:

PV Modules

Type:

TSM-210DC05, TSM-215DC05, TSM-220DC05
TSM-225DC05, TSM-230DC05, TSM-235DC05
TSM-240DC05, TSM-245DC05, TSM-250DC05
(6" mono with 60 cells, 1650 x 992 x 46)
TSM-200PC05, TSM-205PC05, TSM-210PC05
TSM-215PC05, TSM-220PC05, TSM-225PC05
TSM-230PC05, TSM-235PC05, TSM-240PC05
(6" poly with 60 cells, 1650 x 992 x 46)
TSM-160PC03, TSM-165PC03, TSM-170PC03
TSM-175PC03, TSM-180PC03, TSM-185PC03
TSM-190PC03
(6" poly with 48 cells, 1316 x 992 x 46)

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.



- Qualified, IEC 61215
- Safety tested,
IEC 61730
- Periodic Inspection

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.
- The details of the factory inspection are documented in report no. 153112628.

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 19 June 2014.

Cologne, 19 June 2009



Dipl.-Ing. M. Adrian

Certificate

Registration No.: PV 60026065

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Report No.: 15032852.008

License Holder:

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

Product:

PV Modules

Type:

TSM-xxxDC14 (xxx = 250 – 290 in steps of 5)
6" mono with 72 cells

TSM-xxxPC14 (xxx = 250 – 290 in steps of 5)
6" poly with 72 cells

Manufacturing Plant

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



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

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.
- The details of the factory inspection are documented in report no. 15036189.
- Extension to additional module types with increased No. of cells

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 19 June 2014.

Cologne, 17 February 2011



Dipl.-Ing. M. Adrian