

Certificate



Registration No.: PV 60027879

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Report No.: 15033519.005

License Holder:
Changzhou City Tianshun Energy Technology Co., Ltd.
No. 15 Wenhua Road, Zhulin Town
Jintan, Jiangsu 213241
China

Manufacturing Plant:
Changzhou City Tianshun Energy Technology Co., Ltd.
No. 15 Wenhua Road, Zhulin Town
Jintan, Jiangsu 213241
China

Product:
Type:
TSMxxxDB-24V (xxx=255-310 in increments of 5)
72 cells of 6" mono c-Si
TSMxxxDB-24V (xxx=210-260 in increments of 5)
60 cells of 6" mono c-Si
TSMxxxDB-24V (xxx=160-200 in increments of 5)
72 cells of 5" mono c-Si
TSMxxxDB-12V (xxx=75-100 in increments of 5)
36 cells of 5" mono c-Si
TSMxxxD-24V (xxx=255-310 in increments of 5)
72 cells of 6" mono c-Si
TSMxxxD-24V (xxx=210-260 in increments of 5)
60 cells of 6" mono c-Si
TSMxxxD-24V (xxx=160-200 in increments of 5)
72 cells of 5" mono c-Si
TSMxxxD-12V (xxx=75-100 in increments of 5)
36 cells of 5" mono c-Si
TSMxxxP-24V (xxx=245-280 in increments of 5)
72 cells of 6" poly c-Si
TSMxxxP-24V (xxx=210-240 in increments of 5)
60 cells of 6" poly c-Si
TSMxxxP-24V (xxx=190-205 in increments of 5)
54 cells of 6" poly c-Si
TSMxxxP-24V (xxx=165-185 in increments of 5)
48 cells of 6" poly c-Si

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. 15032639.002.
- Change in cell technology, modification to back sheet and junction box, extension to higher power ratings and add a new adhesive.

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 21 September 2014.

Cologne, 28 July 2011

