

Certificate

Registration No.: PV 50182733

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Report No.: 12606962 002

License Holder:

TOPSUN CO., LTD.

Block 8 & 10, A3
Donghwa Electronic Industrial Complex
Nampyeong-ri, Donghwa-myeon
Jangseong-gun, Jeollanam-do
515-863 Rep. of Korea

Product:

PV Module

Type: TS-Sxxx

xxx = 355-430 in 1W increments (96 cells)

TS-Syyy

yyy = 330-393 in 1W increments (88 cells)

Manufacturing Plant:

TOPSUN CO., LTD.

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Donghwa Electronic Industrial Complex
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Jangseong-gun, Jeollanam-do
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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.



- **Periodic inspection**
- **Qualified IEC 61215**
- **Safety tested, IEC 61730**

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. 13010196.

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.



Certification body



Dipl.-Ing. S. Hartter

Yokohama, 25 June 2010