

Certificate

Registration No.: PV 60035566

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Report No.: 21156250.001

License Holder:
Evergreen Solar, Inc.
138 Bartlett Street
Marlboro MA 017252
USA

Product:
PV Module

Type:

ES-E-xxx-fc3 (xxx = 195 – 220)

ES-xxx-SL (xxx = 170 – 200)

ES-xxx-RL (xxx = 170 – 200)

ES-A-xxx-fa1 (xxx = 190 – 220)

ES-A-xxx-fa2 (xxx = 190 – 220)

ES-A-xxx-fa3 (xxx = 190 – 220)

ES-B-xxx-fa1 (xxx = 170 – 200)

ES-B-xxx-fa2 (xxx = 170 – 200)

ES-B-xxx-fb1 (xxx = 170 – 200)

Manufacturing Plant:
Evergreen Solar
112 Barnum Road
Devens, MA 01432
USA

xxx stands for power range in 5 Wp steps

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. 21213027.
- This certificate replaces certificate PV 60023364.

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 November 2013.

Cologne, 16 November 2010



Dipl.-Ing. M. Adrian

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ES-B-xxx-fa1 (xxx = 170 – 200)

ES-B-xxx-fa2 (xxx = 170 – 200)

ES-B-xxx-fb1 (xxx = 170 – 200)

Manufacturing Plant:
Jiawei Solar (Wuhan) Co., Ltd.
No. 3 Road, No. 1 Liufang Dongyi, Industrial Park
Donghu Gaoxin District,
Wuhan, Hubei 430205
China

xxx stands for power range in 5 Wp steps

Basis:

- IEC 61730-1:2004
IEC 61730-2:2004
EN 61730-1:2007
EN 61730-2:2007
"Photovoltaic (PV) module safety qualification"



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

- Factory Inspection**
To document the consistent quality of the product factory inspections are performed periodically.

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. 15035850.001.
- This certificate replaces certificate PV 60023364.

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 November 2013.



Cologne, 16 November 2010

Dipl.-Ing. M. Adrian