

Certificate

Registration No.: PV 60020109

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Report No.: 21207783

License Holder:

Sanyo Electric Co. Ltd.
15-2, Nishiki-minami-cho
Kaizuka City
Osaka 597-0094
Japan

Product:

PV Module

Types:

HIP-215NKHE1, HIP-215NKHE1-2,
HIP-210NKHE1, HIP-210NKHE1-2,
HIP-205NKHE1, HIP-205NKHE1-2,
HIP-200NKHE1, HIP-200NKHE1-2,
HIP-195NKHE1, HIP-195NKHE1-2

Manufacturing Plant:

Sanyo Electric Co., Ltd.
Nishikinohama Factory
15-2, Nishiki, Minami-Machi
Kaizuka City
Osaka 579-0094
Japan

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.



- 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 Cass 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. 21208715-1.

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 08 March 2010.



Cologne, 12 December 2007

Dipl.-Ing. M. Adrian

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15-2, Nishiki-minami-cho
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Japan

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PV Module

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HIP-210NKHE1, HIP-210NKHE1-2,
HIP-205NKHE1, HIP-205NKHE1-2,
HIP-200NKHE1, HIP-200NKHE1-2,
HIP-195NKHE1, HIP-195NKHE1-2

Manufacturing Plant:

Sanyo Electric Co., Ltd.
Tokyo Plant
1-1-1, Sakata, Oizumi-Machi, Ora-Gun,
Gunma-ken 370-0596
Japan

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.



- 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 Cass 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. 21208715-2.

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.

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15-2, Nishiki-minami-cho
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Product:

PV Module

Types:

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HIP-210NKHE1, HIP-210NKHE1-2,
HIP-205NKHE1, HIP-205NKHE1-2,
HIP-200NKHE1, HIP-200NKHE1-2,
HIP-195NKHE1, HIP-195NKHE1-2

Manufacturing Plant:

SANYO Hungary KFT
2510 Ipari Park
Dorag
Hungary

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.



- 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 Cass 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. 21208174.

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 08 March 2010.



Cologne, 12 December 2007

Dipl.-Ing. M. Adrian