

# Certificate

Registration No.: PV 60022497

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Report No.: 21209955-1

**License Holder:**

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

**Manufacturing Plant:**

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

**Product:**

PV Module  
Types:

HIP-215NKHEX; HIP-215NKHEX-2;  
HIP-210NKHEX; HIP-210NKHEX-2;  
HIP-205NKHEX; HIP-205NKHEX-2;  
HIP-200NKHEX; HIP-200NKHEX-2;  
HIP-195NKHEX; HIP-195NKHEX-2;  
HIP-215NKHEX-SSE; HIP-215NKHEX-ZH;  
HIP-210NKHEX-SSE; HIP-210NKHEX-ZH;  
HIP-205NKHEX-SSE; HIP-205NKHEX-ZH;  
HIP-200NKHEX-SSE; HIP-200NKHEX-ZH;  
HIP-195NKHEX-SSE; HIP-195NKHEX-ZH.

Last digit (x) stands for:

- 4 = using conventional junction box, all cells are set the other way around as HIP-205NKHE1
- 5 = using new junction box, all cells are set the same way as HIP-205NKHE1
- 6 = using new junction box, all cells are set the other way as HIP-205NKHE1

**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
- Safety tested, IEC 61730
- Periodic Inspection

**Remarks:**

The details of the factory inspection are documented in report no. 21210100.

**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, 27 August 2008



Dipl.-Ing. M. Adrian

# Certificate

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Report No.: 21209955-1

**License Holder:**

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

**Manufacturing Plant:**

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

**Product:**

PV Module  
Types:

HIP-215NKHEx; HIP-215NKHEx-2;  
HIP-210NKHEx; HIP-210NKHEx-2;  
HIP-205NKHEx; HIP-205NKHEx-2;  
HIP-200NKHEx; HIP-200NKHEx-2;  
HIP-195NKHEx; HIP-195NKHEx-2;  
HIP-215NKHEx-SSE; HIP-215NKHEx-ZH;  
HIP-210NKHEx-SSE; HIP-210NKHEx-ZH;  
HIP-205NKHEx-SSE; HIP-205NKHEx-ZH;  
HIP-200NKHEx-SSE; HIP-200NKHEx-ZH;  
HIP-195NKHEx-SSE; HIP-195NKHEx-ZH.

Last digit (x) stands for:

- 4 = using conventional junction box, all cells are set the other way around as HIP-205NKHE1
- 5 = using new junction box, all cells are set the same way as HIP-205NKHE1
- 6 = using new junction box, all cells are set the other way as HIP-205NKHE1

**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
- Safety tested, IEC 61730
- Periodic Inspection

**Remarks:**

The details of the factory inspection are documented in report no. 21209324.

**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, 27 August 2008

Dipl.-Ing. M. Adrian

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**License Holder:**

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

**Manufacturing Plant:**

Sanyo Hungary Kft.  
Ipari park  
2510 Dorog  
Hungary

**Product:**

PV Module  
Types:

HIP-215NKHEx; HIP-215NKHEx-2;  
HIP-210NKHEx; HIP-210NKHEx-2;  
HIP-205NKHEx; HIP-205NKHEx-2;  
HIP-200NKHEx; HIP-200NKHEx-2;  
HIP-195NKHEx; HIP-195NKHEx-2;  
HIP-215NKHEx-SSE; HIP-215NKHEx-ZH;  
HIP-210NKHEx-SSE; HIP-210NKHEx-ZH;  
HIP-205NKHEx-SSE; HIP-205NKHEx-ZH;  
HIP-200NKHEx-SSE; HIP-200NKHEx-ZH;  
HIP-195NKHEx-SSE; HIP-195NKHEx-ZH.

Last digit (x) stands for:

- 4 = using conventional junction box, all cells are set the other way around as HIP-205NKHE1
- 5 = using new junction box, all cells are set the same way as HIP-205NKHE1
- 6 = using new junction box, all cells are set the other way as HIP-205NKHE1

**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
- Safety tested, IEC 61730
- Periodic Inspection

**Remarks:**

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 has a validity of 5 years counting from date of issue.**



Cologne, 27 August 2008

Dipl.-Ing. M. Adrian