

Explanatory Note IEC-Certificate

This explanatory note describes how to read the

IEC 61215 and IEC 61730 certificates

for photovoltaic modules made by Kyocera.

The **first 4 certificate pages** do list Kyocera's global PV-module production sites certified according to IEC 61215 and IEC 61730 under the headline "Manufacturing Plant":

1. Mie Ise, Japan
2. Tianjin, China
3. Kadan, Czech Republic
4. Tijuana, Mexico

The **certificate pages 5 ff.** do list the Japanese production site (Mie Ise) only under the headline "Manufacturing Plant", while the remarks section in the lower third of the certificate page is referring to the production sites listed in the previous certificate pages:

"For associated factories, refer to the preceding certificate pages"

This means the production sites listed on the first 4 certificate pages are certified for production of all modules listed in the certificate.

Esslingen, September 20th 2012



Simon Schwarz
Assistant Manager Engineering Center
Solar Division

Certificate

Registration No.: PV 50137353

Page 1

Report No.: 12604646 002

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Type: KD130GH-2PU
KD135GH-2PU
KD180GH-2PU
KD205GH-2PU
KD210GH-2PU
KD130GH-2U
KD135GH-2U
KD180GH-2U
KD205GH-2U
KD210GH-2U

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 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.



- 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. 12605118 001

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, 11 September 2008

Certificate

Registration No.: PV 50137353

Page 2

Report No.: 12604646 002

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Type: KD130GH-2PU
KD135GH-2PU
KD180GH-2PU
KD205GH-2PU
KD210GH-2PU
KD130GH-2U
KD135GH-2U
KD180GH-2U
KD205GH-2U
KD210GH-2U

Manufacturing Plant:

Kyocera (Tianjin) Solar Energy Co., Ltd.

Tianjin Economic-Technological Development Area
16 XiangAn Road (5th Avenue)
Tianjin 300457 P.R. China

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. 12605119 001

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.

Yokohama, 11 September 2008

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan



Certification body



Dipl.-Ing. S. Hartter

Certificate

Registration No.: PV 50137353

Page 3

Report No.: 12604646 002

License Holder:**Kyocera Corporation**

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:**PV Module**

Type: KD130GH-2PU
KD135GH-2PU
KD180GH-2PU
KD205GH-2PU
KD210GH-2PU
KD130GH-2U
KD135GH-2U
KD180GH-2U
KD205GH-2U
KD210GH-2U

Manufacturing Plant:**KYOCERA Solar Europe S. R. O.**

Kralovsky Vrch 1977
43201 Kadan
Czech Republic

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. 21207674

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, 11 September 2008

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

Certificate

Registration No.: PV 50137353

Page 4

Report No.: 12604646 002

License Holder:**Kyocera Corporation**6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN**Product:**

PV Module

Type: KD130GH-2PU
KD135GH-2PU
KD180GH-2PU
KD205GH-2PU
KD210GH-2PU
KD130GH-2U
KD135GH-2U
KD180GH-2U
KD205GH-2U
KD210GH-2U**Manufacturing Plant:****KYOCERA MEXICANA, S.A. DE C.V.**BLVD. BUENA VISTA OTAY No.2055
OTAY UNIVERSIDAD 22427
TIJUANA, B.C. MEXICO**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. 12605186 001.

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, 15 October 2008

Certificate

Registration No.: PV 50137353

Page 5

Report No.: 12604646 004

License Holder:

Kyocera Corporation
6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type: KD185GH-2PU
KD185GH-2U

Manufacturing Plant:

Kyocera Corporation
Mie Ise Plant
600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

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.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body

Yokohama, 5 March 2009


Dipl.-Ing. W. Herlitschke

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

Certificate

Registration No.: PV 50137353

Page 6

Report No.: 12604646 006

License Holder:**Kyocera Corporation**6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN**Product:**

PV Module

AdditionType: KD140GH-2PU
KD215GH-2PU
KD140GH-2U
KD215GH-2U**Manufacturing Plant:****Kyocera Corporation****Mie Ise Plant**600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN**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. 21210176.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.**Certification body**

Dipl.-Ing. S. Hartter

Yokohama, 22 July 2009

Certificate

Registration No.: PV 50137353

Page 7

Report No.: 12604646 008

License Holder:

Kyocera Corporation
6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-2B
KDxxxGH-2PB

xxx= 225, 230, 235 or 240

Manufacturing Plant:

Kyocera Corporation
Mie Ise Plant
600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body



Dipl.-Ing. S. Hartter

Yokohama, 5 November 2009

Certificate

Registration No.: PV 50146683

Page 8

Report No.: 21207991 032

License Holder:
Kyocera Corporation
 6 Takeda, Tobadono-cho
 Fushimi-ku, Kyoto
 612-8501 JAPAN

Product:
 PV Module

Addition

Type: KDxxxSX-1PU
 xxx = 140, 145, 150 (36 cells)

Manufacturing Plant:
Kyocera Corporation
Mie Ise Plant
 600-10 Shimono-cho
 Ise-shi, Mie
 516-8510 JAPAN

KDxxxSX-1PB, KDxxxSX-1PBS, KDxxxSX-1FB
 KDxxxSX-1FBS, KDxxxSX-1FU, KDxxxSX-1YB
 KDxxxSX-1YBS, KDxxxSX-1YU
 KTxxx-3BD, KTxxx-3AD, KTxxx-3UD
 xxx = 130, 132, 133, 135, 140, 145, 150
 (36 cells)

Basis:

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



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

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

Remarks:

- Additional type designations see above.
- The details of the factory inspection are documented in report no. 12605118.
- For associated manufacturing plants, refer to the preceding certificate page.
- IEC EN 61730 consists of part 1 (Requirements for construction) and part 2 (Requirements for testing).
- The above listed PV modules fulfill 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 750 VDC.
- The fire test (IEC 61730-2 / MST 23) was not performed.

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 for 5 years from the date of issue stated on page 1.



Certification body


 Dipl.-Ing. (FH) J. Taylor

Yokohama, 24 April 2012

Certificate

Registration No.: PV 50137353

Page 10

Report No.: 12604646 012

License Holder:

Kyocera Corporation
6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Manufacturing Plant:

Kyocera Corporation
Mie Ise Plant
600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

Product:

PV Module

Addition

Type: 1) KDxxxGH-2JB

2) KDxxxGH-2JB, KDxxxGH-2JBS, KDxxxGH-2JU

3) KDxxxGH-2FB

4) KDxxxGH-2FB, KDxxxGH-2FBS, KDxxxGH-2FU

1) xxx = 215, 220, 225, 230, 235 (60 cells)

2) xxx = 195, 196, 200, 202, 205, 208, 210 (54 cells)

2) xxx = 170, 172, 175, 179, 180, 185 (48 cells)

2) xxx = 128, 130, 133, 135 (36 cells)

3) xxx = 220, 225, 230, 235, 240 (60 cells)

4) xxx = 195, 196, 200, 202, 205, 208, 210, 215 (54 cells)

4) xxx = 172, 175, 179, 180, 185, 190 (48 cells)

4) xxx = 128, 130, 133, 135, 140 (36 cells)

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body


Dipl.-Ing. W. Herlitschke

Yokohama, 10 March 2010

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

Certificate

Registration No.: PV 50137353

Page 12

Report No.: 12604646 026

License Holder:**Kyocera Corporation**6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN**Product:**

PV Module

Addition

Type: KDxxxGH-2YB

xxx = 225, 230, 235, 240 or 245 (60 cells)

KDxxxGH-2YB, KDxxxGH-2YBS, KDxxxGH-2YU

xxx = 195, 196, 200, 202, 205, 208, 210, 215 or 220
(54 cells)

xxx = 172, 175, 179, 180, 185 or 190 (48 cells)

xxx = 128, 130, 133, 135 or 140 (36 cells)

Manufacturing Plant:**Kyocera Corporation****Mie Ise Plant**600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN**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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body


Dipl.-Ing. W. Herlitschke

Yokohama, 22 September 2010

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

Certificate

Registration No.: PV 50137353

Page 13

Report No.: 12604646 040

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-2PB

xxx = 230, 235, 240, 245 or 250 (60 cells)

KDxxxGH-2B

xxx = 230, 235 or 240 (60 cells)

KDxxxGH-2PB, KDxxxGH-2PBS, KDxxxGH-2PU

xxx = 220 or 225 (54 cells)

xxx = 190, 195 or 200 (48 cells)

xxx = 145 or 150 (36 cells)

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body

Yokohama, 28 January 2011

Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137353

Page 16

Report No.: 12604646 055

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type:

1)KDxxxGH-2JB, 2)KDxxxGH-2JB, KDxxxGH-2JBS, KDxxxGH-2JU
3)KDxxxGH-2FB, 4)KDxxxGH-2FB, KDxxxGH-2FBS, KDxxxGH-2FU
5)KDxxxGH-2YB, 6)KDxxxGH-2YB, KDxxxGH-2YBS, KDxxxGH-2YU
7)KDxxxGH-2P1B, 8)KDxxxGH-2P1U, Power & (cells)-see below
1)215, 220, 225, 230, 235 (60)
2)195, 196, 200, 202, 205, 208, 210 (54)
170, 172, 175, 179, 180, 185 (48), 128, 130, 133, 135 (36)
3) 5)230, 235, 240, 245, 250 (60)
4) 6)195, 196, 200, 202, 205, 208, 210, 215, 220, 225 (54)
172, 175, 179, 180, 185, 190 (48), 128, 130, 133, 135, 140 (36)
7)235, 240, 245, 250 (60), 8)210, 215, 220, 225 (54)

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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.

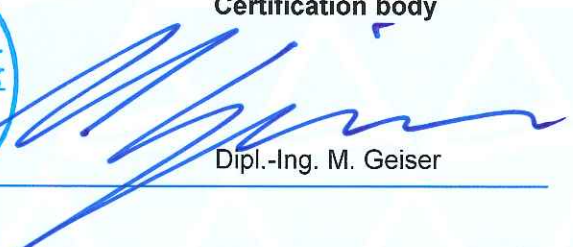
The certificate is valid for 5 years from the date of issue stated on page 1.



Certification body

Yokohama, 21 October 2011

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan


Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137353

Page 17

Report No.: 12604646 061

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-2PB, KDxxxGH-4PB, KTxxx-8BC

xxx = 300, 305, 310, 315, 320, 325, 330, 335 (80 cells)

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 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.



- 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.

Yokohama, 06 December 2011

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan



Certification body

Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137353

Page 19

Report No.: 12604646 069

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-4FB, KDxxxGH-4YB

xxx = 230, 235, 240, 245, 250 (60 cells)

xxx = 202, 205, 208, 210, 215, 220, 225 (54 cells)

xxx = 172, 175, 179, 180, 185, 190, 195, 200 (48 cells)

xxx = 128, 130, 133, 135, 140, 145, 150 (36 cells)

KDxxxGH-4FBS, KDxxxGH-4FU, KDxxxGH-4PU,

KDxxxGH-4YBS, KDxxxGH-4YU

xxx = 202, 205, 208, 210, 215, 220, 225 (54 cells)

xxx = 172, 175, 179, 180, 185, 190, 195, 200 (48 cells)

xxx = 128, 130, 133, 135, 140, 145, 150 (36 cells)

KDxxxGH-4PB, xxx = 230, 235, 240, 245, 250 (60 cells)

KDxxxGH-4P1B, xxx = 235, 240, 245, 250 (60 cells)

KDxxxGH-4P1U, xxx = 210, 215, 220, 225 (54 cells)

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.



Certification body,

Dipl.-Ing. M. Geiser

Yokohama, 20 January 2012

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan

Certificate

Registration No.: PV 50137353
Page 20
Report No.: 12604646 075
License Holder:

Kyocera Corporation
 6 Takeda, Tobadono-cho
 Fushimi-ku, Kyoto
 612-8501 JAPAN

Manufacturing Plant:

Kyocera Corporation
Mie Ise Plant
 600-10 Shimono-cho
 Ise-shi, Mie
 516-8510 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-2PB2, KDxxxGH-2FB2
 KDxxxGH-2YB2, KDxxxGH-4PB2
 KDxxxGH-4FB2, KDxxxGH-4YB2
 xxx = 250, 245, 240, 235, 230 (60 cells)
 xxx = 225, 220, 215, 210, 208, 205, 202
 (54 cells)
 xxx = 200, 195, 190, 185, 180, 179, 175, 172
 (48 cells)
 xxx = 150, 145, 140, 135, 133, 130, 128
 (36 cells)
 KDxxxGH-2P1B2, KDxxxGH-4P1B2
 xxx = 250, 245, 240, 235 (60 cells)
 xxx = 225, 220, 215, 210 (54 cells)

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.

Yokohama, 15 March 2012

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan



Certification body

Dipl.-Ing. (FH) M. Geiser

Certificate

Registration No.: PV 50137353

Page 21

Report No.: 12604646 075

License Holder:

Kyocera Corporation

6 Takeda, Tobadono-cho
Fushimi-ku, Kyoto
612-8501 JAPAN

Product:

PV Module

Addition

Type: KDxxxGH-2FB, KDxxxGH-4FB
KDxxxGH-2YB, KDxxxGH-4YB

xxx = 300, 305, 310, 315, 320, 325, 330, 335 (80 cells)

KTxxx-6FC

xxx = 250, 245, 240, 235, 230 (60 cells)

KTxxx-5FC

xxx = 225, 220, 215, 210, 208, 205, 202 (54 cells)

KTxxx-4FC

xxx = 200, 195, 190, 185, 180, 179, 175, 172 (48 cells)

KTxxx-3FC

xxx = 150, 145, 140, 135, 133, 130, 128 (36 cells)

Manufacturing Plant:

Kyocera Corporation

Mie Ise Plant

600-10 Shimono-cho
Ise-shi, Mie
516-8510 JAPAN

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.

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 for 5 years from the date of issue stated on page 1.

Yokohama, 15 March 2012

TÜV Rheinland Japan Ltd. – Yokohama 222-0033, Japan



Certification body

Dipl.-Ing. (FH) M. Geiser