

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 50137352

Page 1

Report No.: 12604646 001

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

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

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. 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.

Yokohama, 11 September 2008

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



Certification body



Dipl.-Ing. S. Hartter

Certificate

Registration No.: PV 50137352

Page 2

Report No.: 12604646 001

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 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. 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.



Certification body



Dipl.-Ing. S. Hartter

Yokohama, 11 September 2008

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

Certificate

Registration No.: PV 50137352

Page 3

Report No.: 12604646 001

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 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. 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 50137352

Page 4

Report No.: 12604646 001

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 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. 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 50137352

Page 5

Report No.: 12604646 003

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 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:

- 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, 5 March 2009

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

Certificate

Registration No.: PV 50137352

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Report No.: 12604646 005

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

Product:
PV Module

Addition

Type: 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 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. 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

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

Certificate

Registration No.: PV 50137352

Page 7

Report No.: 12604646 007

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Mechanical Load was performed at 5400Pa.
- 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 50146650

Page 8

Report No.: 21207991 031

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 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.



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

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.

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

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

Certificate

Registration No.: PV 50137352

Page 10

Report No.: 12604646 011

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been 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**

Yokohama, 10 March 2010

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


Dipl.-Ing. W. Herlitschke

Certificate

Registration No.: PV 50137352

Page 12

Report No.: 12604646 025

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been performed.

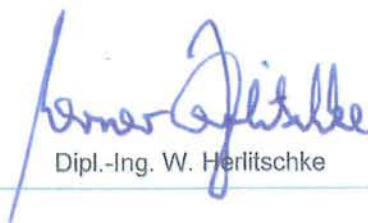
Conditions:

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. W. Herlitschke

Yokohama, 22 September 2010

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

Certificate

Registration No.: PV 50137352

Page 13

Report No.: 12604646 039

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been 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

Yokohama, 28 January 2011

Dipl.-Ing. M. Geiser

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

Certificate

Registration No.: PV 50137352

Page 16

Report No.: 12604646 054

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been 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



Yokohama, 21 October 2011

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

Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137352

Page 17

Report No.: 12604646 060

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been 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

Yokohama, 06 December 2011

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


Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137352

Page 19

Report No.: 12604646 068

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been 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



Yokohama, 20 January 2012

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


Dipl.-Ing. M. Geiser

Certificate

Registration No.: PV 50137352

Page 20

Report No.: 12604646 074

License Holder:

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

Manufacturing Plant:

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

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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been performed for the a.m. KD series.

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 50137352

Page 21

Report No.: 12604646 074

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 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. 12605118.
- For associated factories, refer to the preceding certificate pages.
- Additional type designations see above.
- Mechanical load at 5400 Pa has been performed for the a.m. KD and KT series.

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