

We care! Since 1975.

# Y-series

KD235GH-2YB · KD240GH-2YB · KD245GH-2YB



*Free-field installation, Italy*

## CUTTING-EDGE TECHNOLOGY

### ▶ Cell:

- 156 mm × 156 mm
- Polycrystalline, 3-busbar
- >16% efficiency
- Embedded in EVA film
- Silicon nitride texturing: little light reflection, homogenous coloration

### ▶ Frame:

- Aluminium, black anodised and coated
- Screwed and also adhered
- Strength: 5,400 N/m<sup>2</sup>
- Reinforced on rear side with 2 cross struts
- Interior drainage openings to protect against frost damage
- Flexible assembly (horizontal and upright)

### ▶ Junction box:

- Incl. bypass diodes
- Encapsulated
- Highest fireproof class 5VA in accordance with UL94
- Over-voltage proof Si-p/n bypass diodes
- Pre-configured with connection wires and original multi-contact plug connectors

### ▶ Pairing:

- Sorting procedure: Nominal output is achieved by two paired modules (e.g. ≥490 Wp for 2 × KD245GH-2YB)

### ▶ Production:

- Fully automated and integrated production processes in our own production plants
- 100% final inspection

### ▶ Service:

- Professional Europe-wide customer service in Esslingen/Germany

## COMPANY

As a pioneer in the photovoltaic sector, Kyocera Solar can look back on over 35 years of experience. We are also involved in numerous future-oriented solutions across the world. Our focus is on innovation and quality.

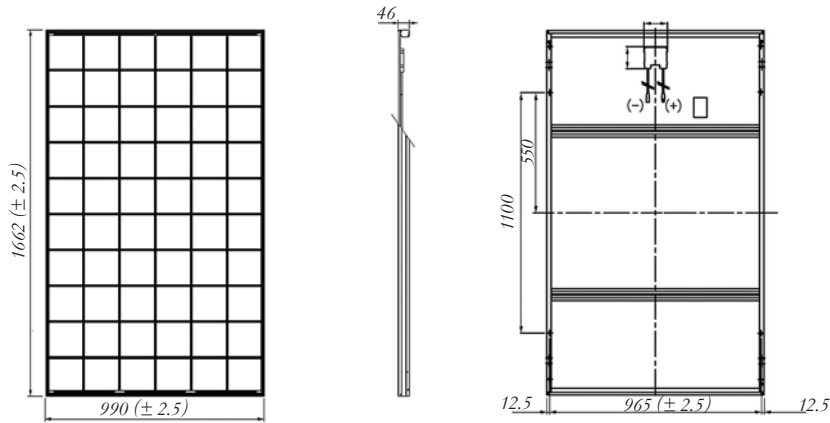
Our vision: To make solar energy accessible to everybody and to ensure a comprehensive sustained energy supply.

TUVdotCOM Service: Internet platform for tested quality and service  
 TUVdotCOM-ID: 0000023299  
 IEC 61215 ed. 2, IEC 61730 and Safety Class II  
 Kyocera is ISO 9001, ISO 14001 and OHSAS18001 certified and registered.



## SPECIFICATIONS

in mm



### ELECTRICAL PERFORMANCE

PV Module Type

**At 1000 W/m<sup>2</sup> (STC)\***

Maximum Power	[W]
Maximum System Voltage	[V]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V <sub>oc</sub> )	[V]
Short Circuit Current (I <sub>sc</sub> )	[A]
Efficiency	[%]

**At 800 W/m<sup>2</sup> (NOCT)\*\***

Maximum Power	[W]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V <sub>oc</sub> )	[V]
Short Circuit Current (I <sub>sc</sub> )	[A]
NOCT	[°C]

Power Tolerance	[%]
Maximum Reverse Current I <sub>r</sub>	[A]
Series Fuse Rating	[A]
Temperature Coefficient of V <sub>oc</sub>	[%/K]
Temperature Coefficient of I <sub>sc</sub>	[%/K]
Temperature Coefficient of Max. Power	[%/K]
Reduction of Efficiency (from 1000 W/m <sup>2</sup> to 200 W/m <sup>2</sup> )	[%]

### DIMENSIONS

Length	[mm]
Width	[mm]
Depth / incl. Junction Box	[mm]
Weight	[kg]
Cable	[mm]
Connection Type	
Junction Box	[mm]
Number of bypass diodes	
IP Code	

### CELLS

Number per Module	
Cell Technology	
Cell Shape (square)	[mm]
Cell Bonding	

### GENERAL INFORMATION

Performance Guarantee	
Warranty	

	KD235GH-2YB	KD240GH-2YB	KD245GH-2YB
Maximum Power	235	240	245
Maximum System Voltage	1000	1000	1000
Maximum Power Voltage	29.8	29.8	29.8
Maximum Power Current	7.89	8.06	8.23
Open Circuit Voltage (V <sub>oc</sub> )	36.9	36.9	36.9
Short Circuit Current (I <sub>sc</sub> )	8.55	8.59	8.91
Efficiency	14.2	14.5	14.8
Maximum Power	169	172	176
Maximum Power Voltage	26.8	26.7	26.8
Maximum Power Current	6.31	6.45	6.58
Open Circuit Voltage (V <sub>oc</sub> )	33.7	33.7	33.7
Short Circuit Current (I <sub>sc</sub> )	6.92	6.95	7.21
NOCT	45	45	45
Power Tolerance	+5 / -3	+5 / -3	+5 / -3
Maximum Reverse Current I <sub>r</sub>	15	15	15
Series Fuse Rating	15	15	15
Temperature Coefficient of V <sub>oc</sub>	-0.36	-0.36	-0.36
Temperature Coefficient of I <sub>sc</sub>	0.06	0.06	0.06
Temperature Coefficient of Max. Power	-0.46	-0.46	-0.46
Reduction of Efficiency (from 1000 W/m <sup>2</sup> to 200 W/m <sup>2</sup> )	6.0	7.3	6.6
Length	1662 (± 2.5)	1662 (± 2.5)	1662 (± 2.5)
Width	990 (± 2.5)	990 (± 2.5)	990 (± 2.5)
Depth / incl. Junction Box	46	46	46
Weight	21	21	21
Cable	(+)1190 / (-)960	(+)1190 / (-)960	(+)1190 / (-)960
Connection Type	MC PV-KBT3 / MC PV-KST3	MC PV-KBT3 / MC PV-KST3	MC PV-KBT3 / MC PV-KST3
Junction Box	113 × 82 × 15	113 × 82 × 15	113 × 82 × 15
Number of bypass diodes	3	3	3
IP Code	IP65	IP65	IP65
Number per Module	60	60	60
Cell Technology	polycrystalline	polycrystalline	polycrystalline
Cell Shape (square)	156 × 156	156 × 156	156 × 156
Cell Bonding	3 busbar	3 busbar	3 busbar
Performance Guarantee	10*** / 20 years ****	10*** / 20 years ****	10*** / 20 years ****
Warranty	10 years *****	10 years *****	10 years *****

\* Electrical values under standard test conditions (STC): irradiation of 1000 W/m<sup>2</sup>, airmass AM 1.5 and cell temperature of 25°C

\*\* Electrical values under normal operating cell temperature (NOCT): irradiation of 800 W/m<sup>2</sup>, airmass AM 1.5, wind speed of 1 m/s and ambient temperature of 20°C.

\*\*\* 10 years on 90% of the minimally specified power P under standard test conditions (STC)

\*\*\*\* 20 years on 80% of the minimally specified power P under standard test conditions (STC)

\*\*\*\*\* In the case of Europe

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