

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/m²
- 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.

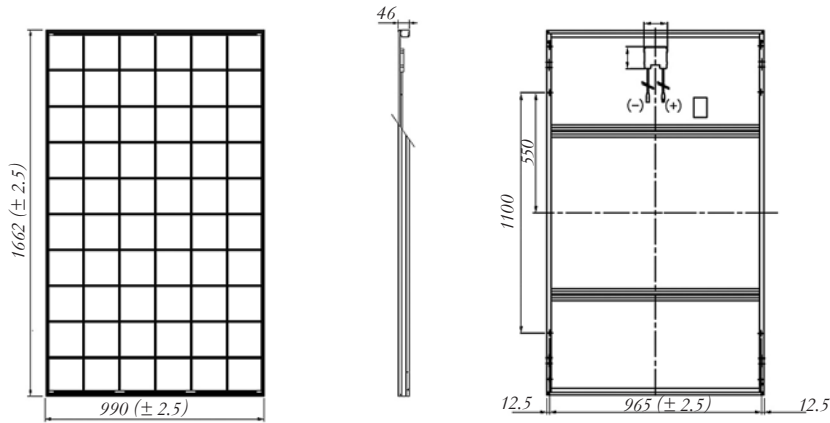
Our vision: To make solar energy accessible to everybody and to ensure a comprehensive sustained energy supply.

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/m² (STC)*

Maximum Power	[W]
Maximum System Voltage	[V]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V _{oc})	[V]
Short Circuit Current (I _{sc})	[A]
Efficiency	[%]

At 800 W/m² (NOCT)**

Maximum Power	[W]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V _{oc})	[V]
Short Circuit Current (I _{sc})	[A]
NOCT	[°C]

Power Tolerance	[%]
Maximum Reverse Current I _r	[A]
Series Fuse Rating	[A]
Temperature Coefficient of V _{oc}	[%/K]
Temperature Coefficient of I _{sc}	[%/K]
Temperature Coefficient of Max. Power	[%/K]
Reduction of Efficiency (from 1000 W/m ² to 200 W/m ²)	[%]

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 _{oc})	36.9	36.9	36.9
Short Circuit Current (I _{sc})	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 _{oc})	33.7	33.7	33.7
Short Circuit Current (I _{sc})	6.92	6.95	7.21
NOCT	45	45	45
Power Tolerance	+5 / -3	+5 / -3	+5 / -3
Maximum Reverse Current I _r	15	15	15
Series Fuse Rating	15	15	15
Temperature Coefficient of V _{oc}	-0.36	-0.36	-0.36
Temperature Coefficient of I _{sc}	0.06	0.06	0.06
Temperature Coefficient of Max. Power	-0.46	-0.46	-0.46
Reduction of Efficiency (from 1000 W/m ² to 200 W/m ²)	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/m², airmass AM 1.5 and cell temperature of 25°C

** Electrical values under normal operating cell temperature (NOCT): irradiation of 800 W/m², 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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