KYOCERA SOLAR

We care! Since 1975.

KD240GH-2PB

High efficiency multicrystal photovoltaic module

Factory Building, Germany

CUTTING-EDGE TECHNOLOGY

Cell:
- 156 mm × 156 mm
- Polycrystalline, 3-busbar
- > 16 % efficiency
- Embedded in EVA film
- Patented RIE process: very little light reflection, homogenous dark 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 5V-A 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 (≥ 480 Wp for 2 × KD240GH-2PB)

Production:
- Fully automated and integrated production processes in our own production plants
- No intermediate products are purchased
- 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.

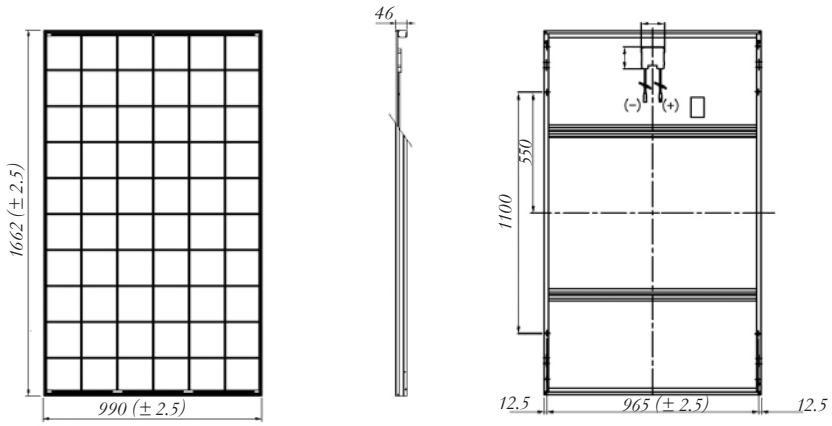
KYOCERA
10 Years product warranty
NEW
since October 2011 for Europe

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.

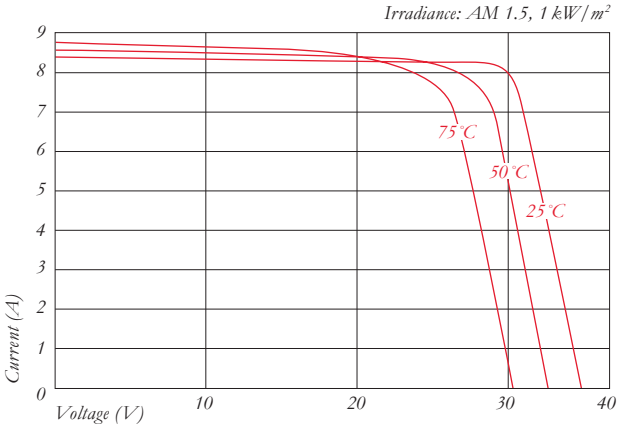
SPECIFICATIONS

in mm

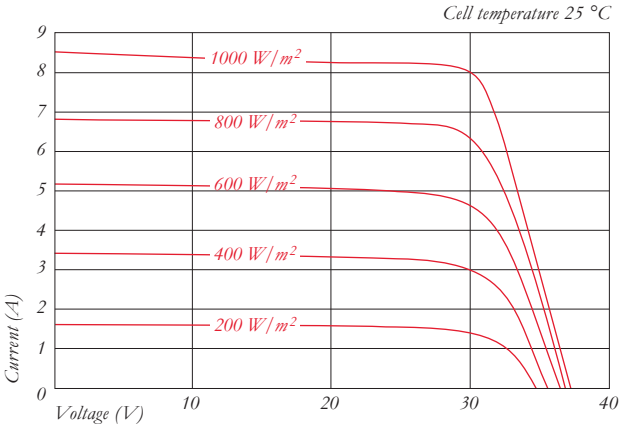


ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels



ELECTRICAL PERFORMANCE

PV Module Type		KD240GH-2PB
At 1000 W/m² (STC)*		
Maximum Power	[W]	240
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	29.8
Maximum Power Current	[A]	8.06
Open Circuit Voltage (V_{oc})	[V]	36.9
Short Circuit Current (I_{sc})	[A]	8.59
Efficiency	[%]	14.5
At 800 W/m² (NOCT)**		
Maximum Power	[W]	172
Maximum Power Voltage	[V]	26.7
Maximum Power Current	[A]	6.45
Open Circuit Voltage (V_{oc})	[V]	33.7
Short Circuit Current (I_{sc})	[A]	6.95
NOCT	[°C]	45
Power Tolerance	[%]	+5 / –3
Maximum Reverse Current I_R	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of V_{oc}	[%/K]	–0.36
Temperature Coefficient of I_{sc}	[%/K]	0.06
Temperature Coefficient of Max. Power	[%/K]	–0.46
Reduction of Efficiency (from 1000 W/m² to 200 W/m²)	[%]	7.3

DIMENSIONS

Length	[mm]	1662 (± 2.5)
Width	[mm]	990 (± 2.5)
Depth / incl. Junction Box	[mm]	46
Weight	[kg]	21
Cable	[mm]	(+) 1190 / (–) 960
Connection Type		MC PV-KBT3 / MC PV-KST3
Junction Box	[mm]	113 × 82 × 15
Number of bypass diodes		3
IP Code		IP65

CELLS

Number per Module		60
Cell Technology		polycrystalline
Cell Shape (square)	[mm]	156 × 156
Cell Bonding		3 busbar

GENERAL INFORMATION

Performance Guarantee	10*** / 20 years ****
Warranty	**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*

Your local Kyocera dealer:

KYOCERA SOLAR

KYOCERA Fineceramics GmbH
Solar Division
Fritz-Mueller-Strasse 27
73730 Esslingen / Germany
Tel: +49 (0)711-93 93 49 99
Fax: +49 (0)711-93 93 49 50
E-Mail: solar@kyocera.de
www.kyocerasolar.de