We care! Since 1975.









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
- \cdot Screwed and also adhered
- · Strength: 5,400 N/m²
- $\boldsymbol{\cdot}$ 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.

TUVdotCOM Service: Internet platform for tested quality and service TUVdotCOM-ID: 0000023299 IEC 61215 ed. 2, IEC 61730 and Safety Class II

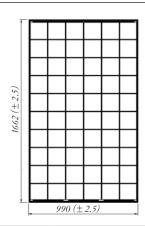
Kyocera is ISO 9001, ISO 14001 and OHSAS18001 certified and registered.



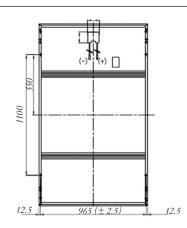




in mm

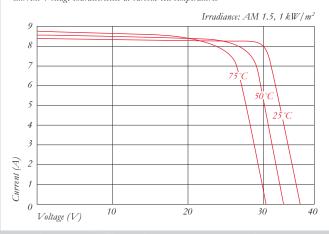






ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels

,		Cell temperature 25
3	$-1000 W/m^2$	
7	800 W/m ²	
5		
ī <u> </u>		
<i>t</i>		
3	400 W/m ²	
2		
	200 W/m ²	
Voltage (V)	10 20	30

ELECTR	ICAL	PERFO	DRMAN	CE

PV Module Type	KD240GH-2PB	
At 1000 W/m ² (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/m ² (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 Poverse Current I	[Δ]	15

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

[mm]	1662 (±2.5)
[mm]	990 (±2.5)
[mm]	46
[kg]	21
[mm]	(+)1190/(-)960
MC PV-KBT3 / MC PV-KST	
[mm]	113×82×15
	3
	IP65
	[mm] [mm] [kg] [mm] MC

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	5 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)

Your local Kyocera dealer:



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^{*****} In the case of Europe