THE NEW VALUE FRONTIER

KYOCERA

KD210GH-2PU

High efficiency multicrystal photovoltaic module

EXAMPLES OF APPLICATION

- Grid-connected systems, for e.g.
  - Residential solar power systems
  - Public and industrial solar power systems
- Solar power stations

CUTTING-EDGE TECHNOLOGY

Exhaustive research work and continuous further development of production processes enable the integrated Kyocera high-performance solar cells with a standard size of 156 mm x 156 mm to achieve over 16 % efficiency, guaranteeing an extremely high annual yield of energy from the photovoltaic system.

To protect against the harshest weather conditions, the cells are embedded between a reinforced glass covering and EVA foil, and are sealed with a PET foil backing. The laminate is set in a sturdy aluminium frame which is easy to assemble. Our warranty covers a surface load of 2,400 N/m², but (in addition to that), the module even passed TÜV certification test IEC 61215 ed. 2 with the test condition of 5,400N/m².

The junction box on the module backside is equipped with bypass diodes that eliminate the risk of the individual solar cells overheating (hot spot effect). Many series-connected photovoltaic modules can be easily wired using pre-assembled solar cables and multi-contact plugs.

Kyocera manufactures all the components at its own production sites – without buying in semi-finished products – to ensure consistently high product quality.

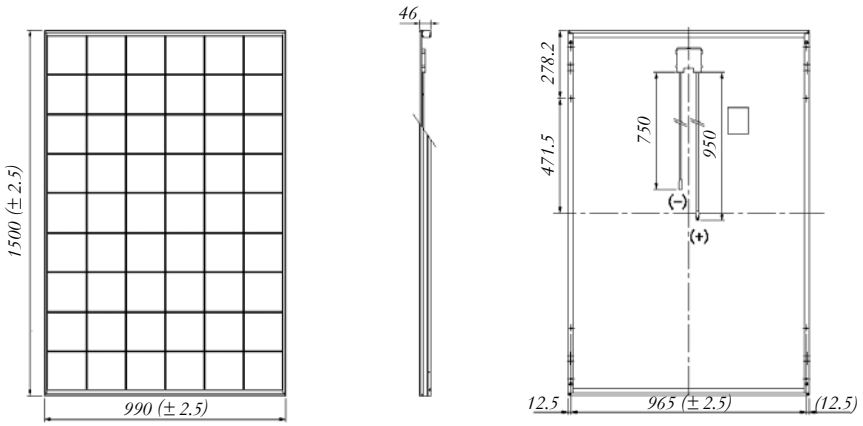
TUVdotCOM Service: Internet platform for tested quality and service
TUVdotCom-ID: 0000023299
IEC 61215 ed. 2, IEC 61730 and Safety Class II
Kyocera is ISO 9001 and ISO 14001 certified and registered.

KYOCERA SOLAR

We care!

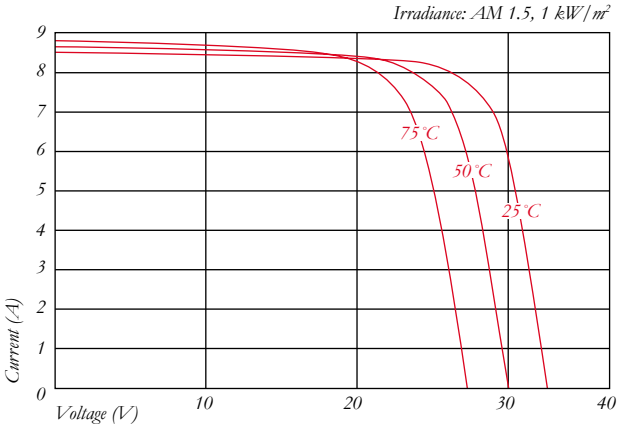
SPECIFICATIONS

in mm

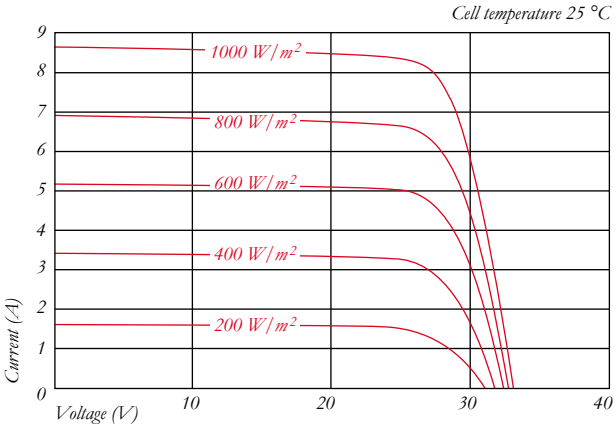


ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels



ELECTRICAL PERFORMANCE

PV Module Type		KD210GH-2PU
At 1000 W/m² (STC)*		
Maximum Power	[W]	210
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	26.6
Maximum Power Current	[A]	7.90
Open Circuit Voltage (V_{OC})	[V]	33.2
Short Circuit Current (I_{SC})	[A]	8.58
At 800 W/m² (NOCT)**		
Maximum Power	[W]	148
Maximum Power Voltage	[V]	23.5
Maximum Power Current	[A]	6.32
Open Circuit Voltage (V_{OC})	[V]	29.9
Short Circuit Current (I_{SC})	[A]	6.98
NOCT	[°C]	49
Power Tolerance	[%]	+5 / -5
Maximum Reverse Current I_R	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of V_{OC}	[V/°C]	-1.20×10^{-1}
Temperature Coefficient of I_{SC}	[A/°C]	5.01×10^{-3}
Temperature Coefficient of Max. Power	[W/°C]	-9.60×10^{-1}
Reduction of Efficiency (from 1000 W/m² to 200 W/m²)	[%]	6.0

DIMENSIONS

Length	[mm]	1500 (±2.5)
Width	[mm]	990 (±2.5)
Depth / incl. Junction Box	[mm]	46
Weight	[kg]	18
Cable	[mm]	(+)950 / (–)750
Connection Type		MC PV-KBT3 / MC PV-KST3
Junction Box	[mm]	100x108x15
IP Code		IP65

GENERAL INFORMATION

Performance Guarantee	10 *** / 20 years****
Warranty	2 years

CELLS

Number per Module		54
Cell Technology		polycrystalline
Cell Shape (square)	[mm]	156x156
Cell Bonding		3 busbar

* *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 1m/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:

KYOCERA SOLAR

We care!

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

Kyocera reserves the right to modify these specifications without notice. Kyocera Fineceramics GmbH, November 2008 · Fulfills EN50380 norm