

KD215GH-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. The module fulfils test conditions according to IEC 61215 ed. 2 for a surface load 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 semifinished 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.

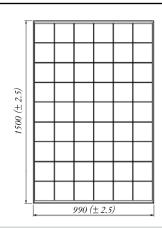




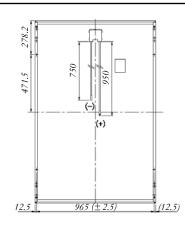
KYOCERA SOLAR

We care!

in mm

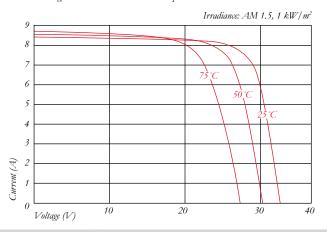






ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels

9	1000 W/m ²	
8		
7	800 W/m ²	
5	$-600 W/m^2$	
4		
3		$\overline{}$
2		
1	200 W/m ²	
, 		

PV Module Type KD21		0215GH-2PU
At 1000 W/m² (STC)*		
Maximum Power	[W]	215
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	26.6
Maximum Power Current	[A]	8.09
Open Circuit Voltage (V _{oc})	[V]	33.2
Short Circuit Current (I _{SC})	[A]	8.78
At 800 W/m² (NOCT)**		
Maximum Power	[W]	152
Maximum Power Voltage	[V]	23.6
Maximum Power Current	[A]	6.47
Open Circuit Voltage (V _{OC})	[V]	30.0
Short Circuit Current (I _{SC})	[A]	7.12
NOCT	[°C]	47.9
Power Tolerance	[%]	+5 / -3
Maximum Reverse Current I _R	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of V _{OC}	[V/°C]	-1.20x10 ⁻¹
Temperature Coefficient of I _{SC}	[A/°C]	5.27x10 ⁻³
Temperature Coefficient of Max. Power	[W/°C]	-9.91x10 ⁻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]	105x108x20
IP Code	•	IP65

GENERAL INFORMATION

Performance Guarantee	10*** / 20 years****
Warranty	5 years*****

CELLS

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

- $Electrical\ values\ under\ standard\ test\ conditions\ (STC):\ irradiation\ of\ 1000\ W/m^2,\ airmass\ AM\ 1.5\ and$
- Electrical values under standard test conditions (S1C): travatation of 1000 w / m , auromosci 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

We care!

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