



KD135GH-2PU

CUTTING EDGE TECHNOLOGY

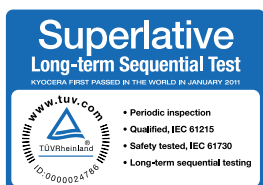
As a pioneer with over 36 years in the solar energy industry, Kyocera demonstrates leadership in the development of solar energy products. Kyocera's *Kaizen* Philosophy, commitment to continuous improvement, is shown by repeated achievement of world record cell efficiencies, supported by proven field performance.

QUALITY & SAFETY BUILT IN

- Manufactured in our own production plants using a fully automated and integrated production process
- UV stabilized, aesthetically pleasing black anodized frame
- Easily accessible grounding points on all four corners for fast installation
- Proven junction box technology with encapsulation
- Pre-configured 4mm² connection cables and original Multi-Contact plug connectors
- Pass TUV surface load testing to 5400N/m²

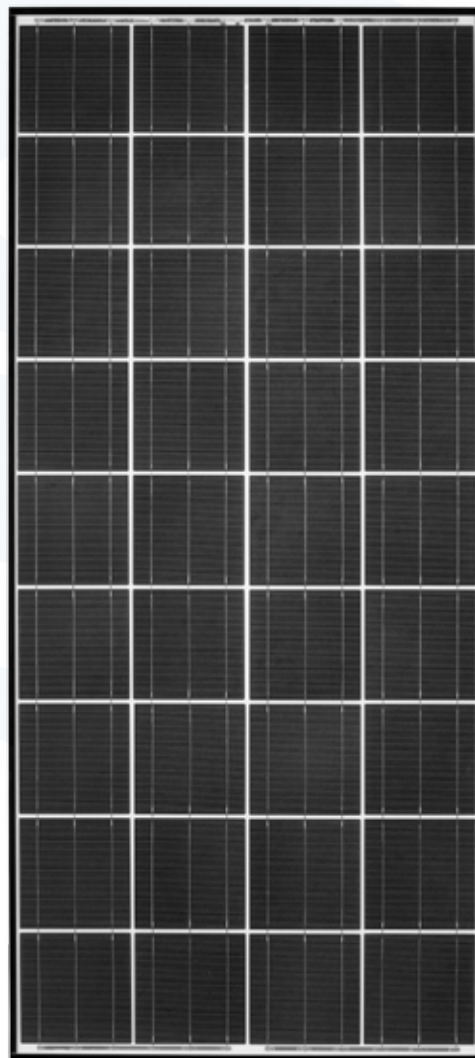
PROVEN RELIABILITY

- First and only module manufacturer to date to pass rigorous Long-Term Sequential Test performed by TÜV Rheinland
- Proven superior field performance with more than 25 years of field data
- Tight power tolerance
- Performance leader at a number of real world system installations, confirmed with actual yield data.



WARRANTY

- Kyocera standard 20 year power output warranty
- 5 year workmanship warranty



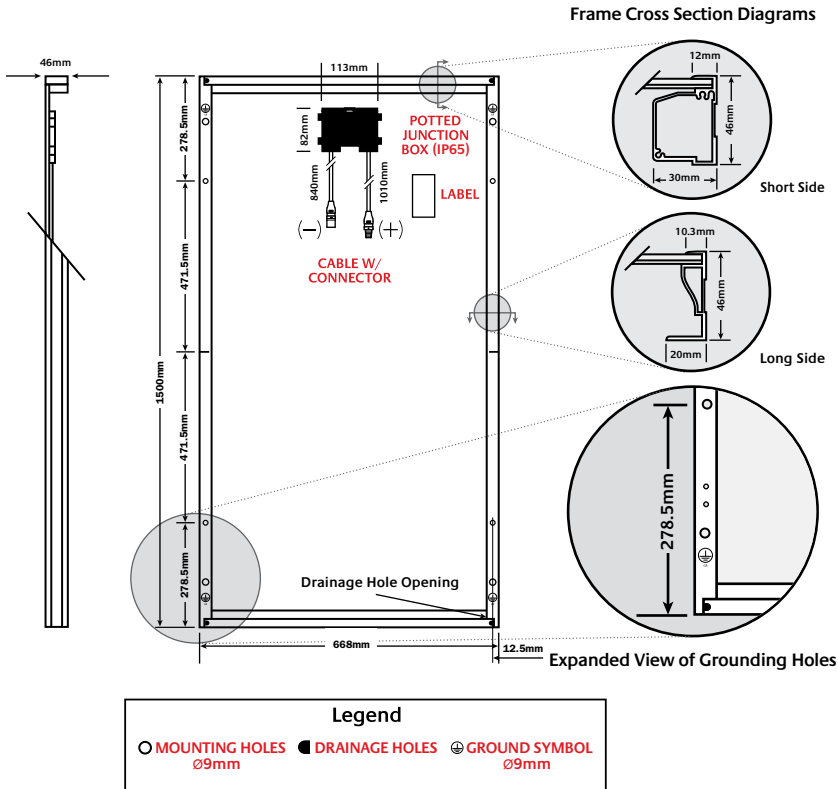
QUALIFICATIONS AND CERTIFICATIONS



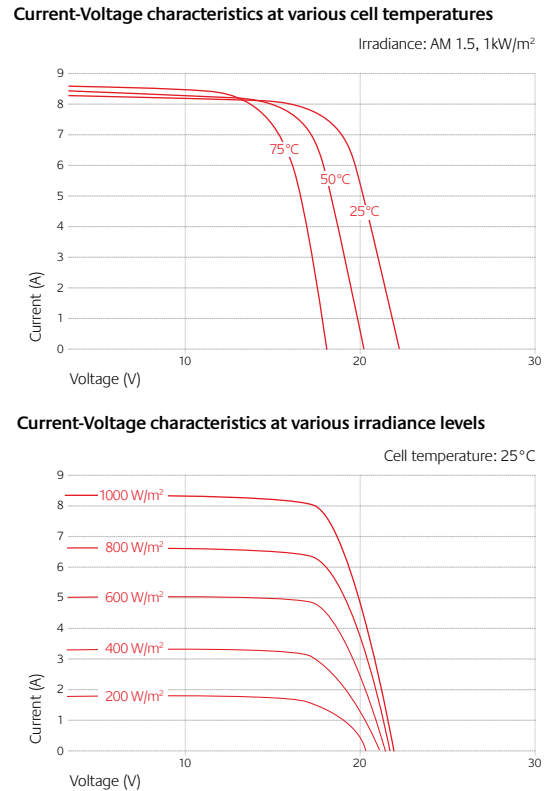
IEC 61215 ed.2 IEC 61730 and Application Class A
IEC 61701 (Salt Mist Corrosion Testing)
TUVdoCom-ID: 0000023299

Kyocera is ISO 9001 and ISO 14001 certified and registered

SPECIFICATIONS



ELECTRICAL CHARACTERISTICS



ELECTRICAL PERFORMANCE

At 1000 W/m ² (STC)*		
Maximum Power	135	W
Maximum Power Voltage (V _{mp})	17.7	V
Maximum Power Current (I _{mp})	7.63	A
Open Circuit Voltage (V _{oc})	22.1	A
Short Circuit Current (I _{sc})	8.37	A
Efficiency	13.4	%

At 800 W/m ² (NOCT)**		
Maximum Power	97	W
Maximum Power Voltage (V _{mp})	16.0	V
Maximum Power Current (I _{mp})	6.1	A
Open Circuit Voltage (V _{oc})	20.2	A
Short Circuit Current (I _{sc})	6.78	A
NOCT	45	°C

Other Electrical Characteristics		
Power Tolerance	+5/-5	%
Maximum System Voltage	1000	V
Maximum Reverse Current	15	A
Series Fuse Rating	15	A
Temperature Coefficient of (V _{oc})	-0.36	%/C
Temperature Coefficient of (I _{sc})	0.06	%/C
Temperature Coefficient of Max. Power	-0.46	%/C

MODULE CHARACTERISTICS

Dimensions		
Length	1500 (±2.5)	mm
Width	668 (±2.5)	mm
Depth (Including Junction Box)	46	mm
Weight	12.5	kg
Cable	(+)1010 / (-)840	mm
Connection Type	MC PV-KBT3 / MC PV-KST3	
Junction Box	113 x 82 x 15	mm
Number of Bypass Diodes	3	
IP Code	IP65	

Cells	
Cell Per Module	36
Cell Technology	multi-crystalline
Cell Dimensions (Square)	156 x 156 mm
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 test conditions (NOCT) = irradiation of 800 W/M², airmass AM 1.5, wind speed of 1m/s, and ambient temperature of 20°C.
 KYOCERA reserves the right to modify these specifications without notice.