



KD240GH-2PB

### 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 4mm<sup>2</sup> connection cables and original Multi-Contact plug connectors
- Frame reinforced on back side with two cross struts for added strength and durability
- Passed TUV surface load testing to 5400N/m<sup>2</sup>

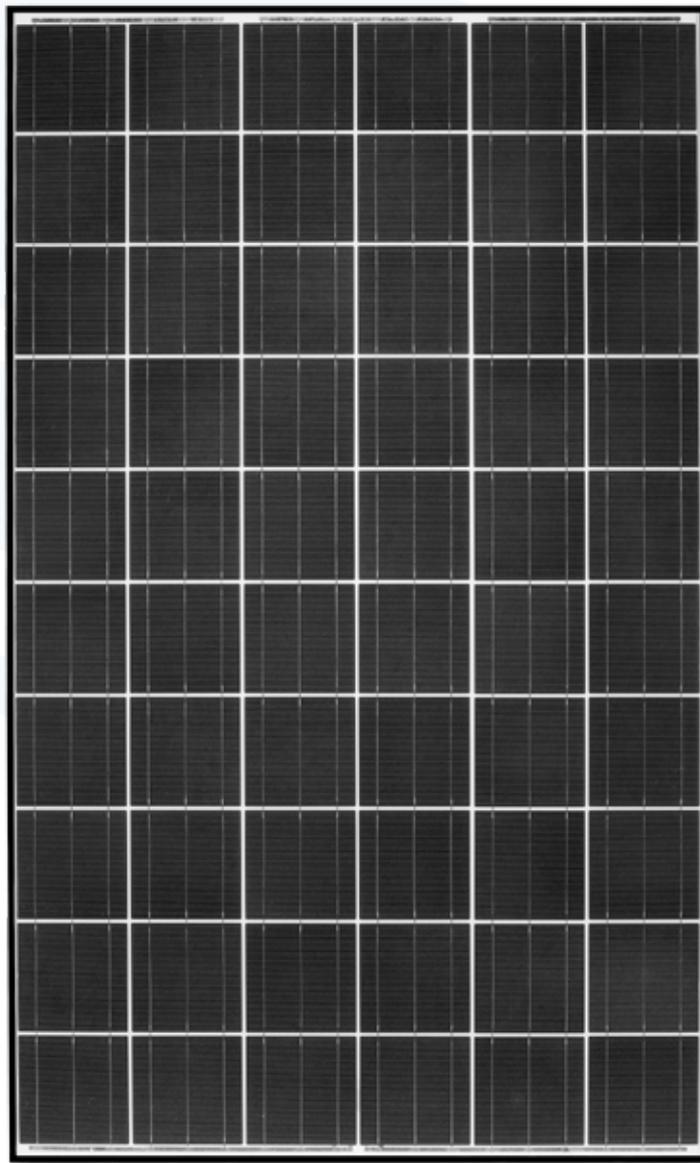
### PROVEN RELIABILITY

- 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



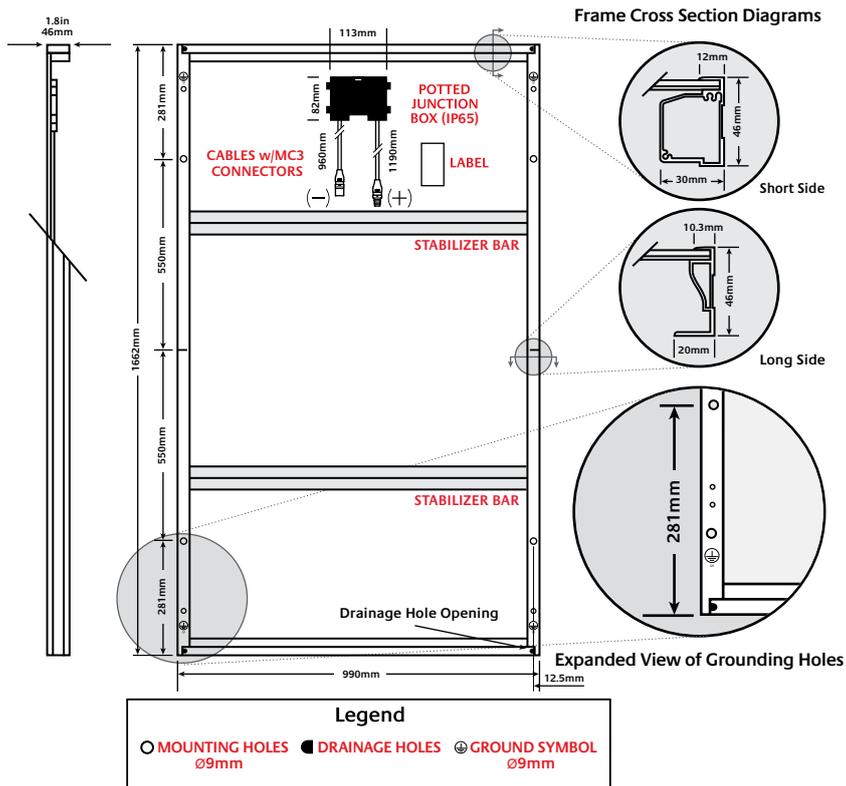
### QUALIFICATIONS AND CERTIFICATIONS



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

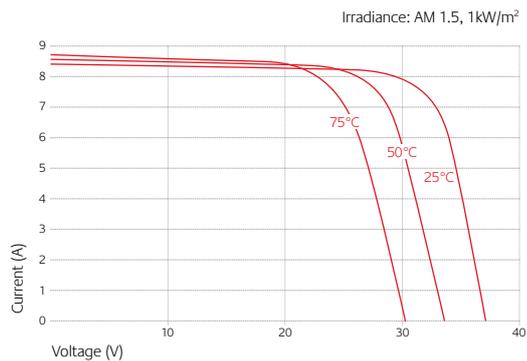
Kyocera is ISO 9001 and ISO 14001 certified and registered

# SPECIFICATIONS

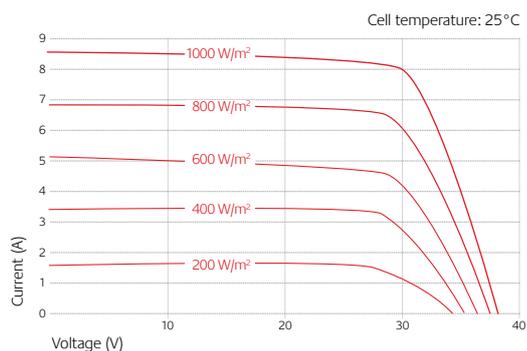


# ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels



## ELECTRICAL PERFORMANCE

At 1000 W/m <sup>2</sup> (STC)*		
Maximum Power	240	W
Maximum Power Voltage (V <sub>mp</sub> )	29.8	V
Maximum Power Current (I <sub>mp</sub> )	8.06	A
Open Circuit Voltage (V <sub>oc</sub> )	36.9	V
Short Circuit Current (I <sub>sc</sub> )	8.59	A
Efficiency	14.5	%
At 800 W/m <sup>2</sup> (NOCT)**		
Maximum Power	172	W
Maximum Power Voltage (V <sub>mp</sub> )	26.7	V
Maximum Power Current (I <sub>mp</sub> )	6.45	A
Open Circuit Voltage (V <sub>oc</sub> )	33.7	V
Short Circuit Current (I <sub>sc</sub> )	6.95	A
NOCT	45	°C
Other Electrical Characteristics		
Power Tolerance	+5/-3	%
Maximum System Voltage	1000	V
Maximum Reverse Current	15	A
Series Fuse Rating	15	A
Temperature Coefficient of (V <sub>oc</sub> )	-0.36	%/C
Temperature Coefficient of (I <sub>sc</sub> )	0.06	%/C
Temperature Coefficient of Max. Power	-0.46	%/C

## MODULE CHARACTERISTICS

Dimensions		
Length	1662 (±2.5)	mm
Width	990 (±2.5)	mm
Depth (Including Junction Box)	46	mm
Weight	21	kg
Cable	(+)1190 / (-)960	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	60	
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/M<sup>2</sup>, air mass AM 1.5, and cell temperature of 25°C.

\*\* Electrical values under normal operating test conditions (NOCT) = irradiation of 800 W/M<sup>2</sup>, air mass AM 1.5, wind speed of 1m/s, and ambient temperature of 20°C.

KYOCERA reserves the right to modify these specifications without notice.