KYOCERA

KD245GH-4FB2

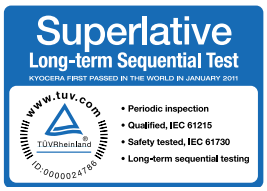
CUTTING EDGE TECHNOLOGY

As a pioneer with over 38 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 with connection wires and SMK plug connectors
- Frame reinforced on back side with two cross struts for added strength and durability
- Passed TUV surface load testing to 5400N/m^2

PROVEN RELIABILITY



- First module manufacturer to pass rigorous Long-Term Sequential Test performed by TÜV Rheinland
- Proven superior field performance with more than 25 years of field data from a number of real world operating systems
- Confirmed as Potential Induced Degradation (PID) resistant by Fraunhofer CSP Testing, with zero degradation

WARRANTY

- Kyocera standard 25 year power output warranty
- 10 year workmanship warranty

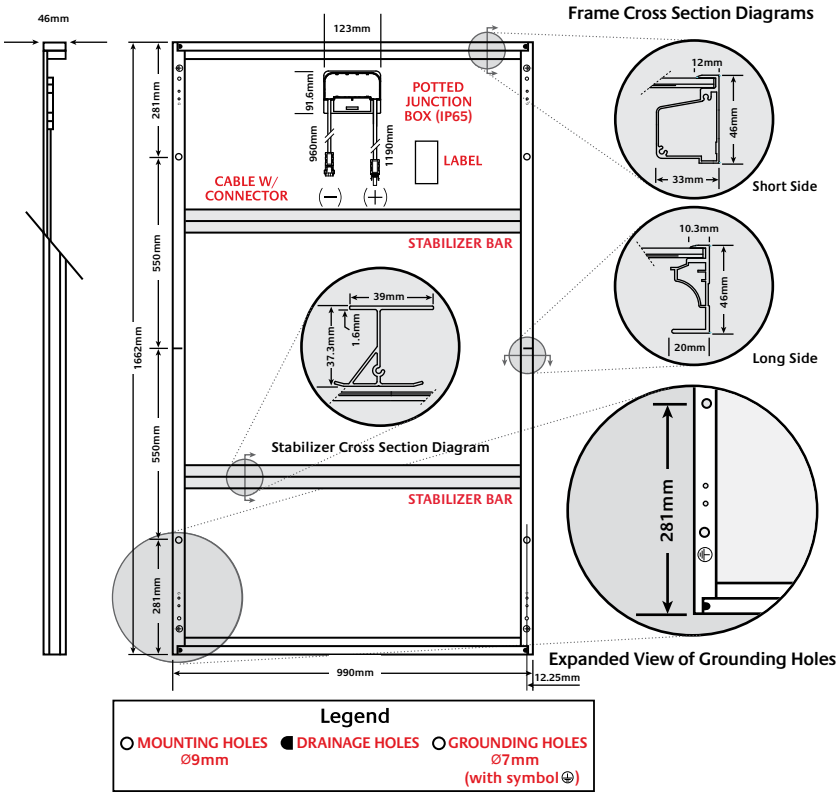
QUALIFICATIONS AND CERTIFICATIONS

TÜV TÜVRheinland CERTIFIED CE

IEC 61215 ed.2 IEC 61730 and Application Class A
IEC 61701 (Salt Mist Corrosion Testing)

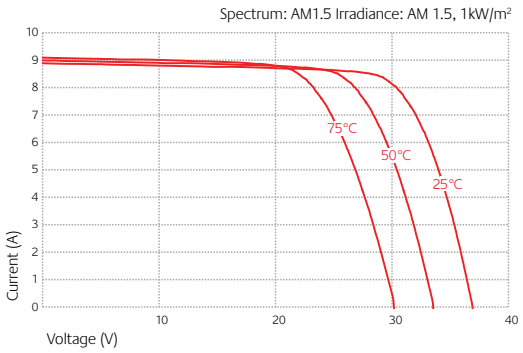
Kyocera is ISO 9001 and ISO 14001 certified and registered

SPECIFICATIONS

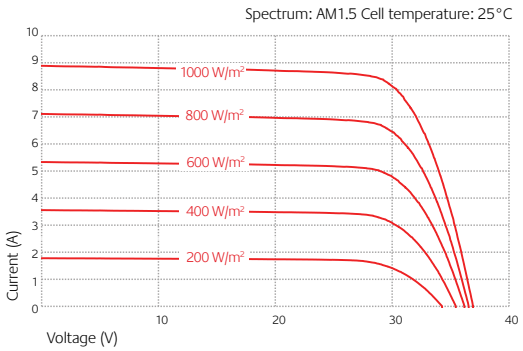


ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics at various cell temperatures



Current-Voltage characteristics at various irradiance levels



ELECTRICAL PERFORMANCE

At 1000 W/m² (STC)*		
Maximum Power	245	W
Maximum Power Voltage (V_{mp})	29.8	V
Maximum Power Current (I_{mp})	8.23	A
Open Circuit Voltage (V_{oc})	36.9	V
Short Circuit Current (I_{sc})	8.91	A
Efficiency	14.8	%

At 800 W/m² (NOCT)**		
Maximum Power	176	W
Maximum Power Voltage (V_{mp})	26.8	V
Maximum Power Current (I_{mp})	6.58	A
Open Circuit Voltage (V_{oc})	33.7	V
Short Circuit Current (I_{sc})	7.21	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_{oc})	-0.36	%/C
Temperature Coefficient of (I_{sc})	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	20	kg
Cable	(+)1190 / (-)960	mm
Connection Type	R51-7/P51-7 (SMK PV-03 Series)	
Junction Box	123 x 91.6 x 16	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/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.

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OUR VALUED PARTNER