



KD145GH-4PU

HIGH EFFICIENCY MULTICRYSTALLINE PHOTOVOLTAIC MODULE



On top of product warranty for surface pressure of 2,400Pa, this module has passed 5,400Pa mechanical load test based on IEC61215 ed.2. This module is manufactured in **ISO9001** certified factories. Registered No.: JMI0036(Japan), CN07/00321(China), FM26856(Mexico)

TUVdotCOM Internet platform for tested quality and service ID 0000023299.

HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

Kyocera's advanced cell processing technology and automated production facilities produce highly efficient multicrystalline photovoltaic modules.

The conversion efficiency of the Kyocera solar cell is over 16%.

These cells are encapsulated between a tempered glass cover and a pottant with back sheet to provide efficient protection from severe environmental conditions.

The entire laminate is installed in an anodized aluminum frame to provide structural strength and ease of installation. Equipped with plug in connectors.

APPLICATIONS

Grid-Connected Systems

- Residential Solar Power Systems
- Public and Industrial Solar Power Systems

Stand-Alone Solar Power Systems for

- Villages in remote areas
- Homes and summer cottages
- Microwave / Radio repeater stations
- Medical facilities in rural areas

- Emergency communication
- Water quality and environmental data monitoring
- Drinking water and livestock water pumping
- Irrigation pumping
- Cathodic protection
- Aviation obstruction lights
- Environmental data monitoring
- Railway signals
- Street lighting
- Desalination
- etc.

LIMITED WARRANTY

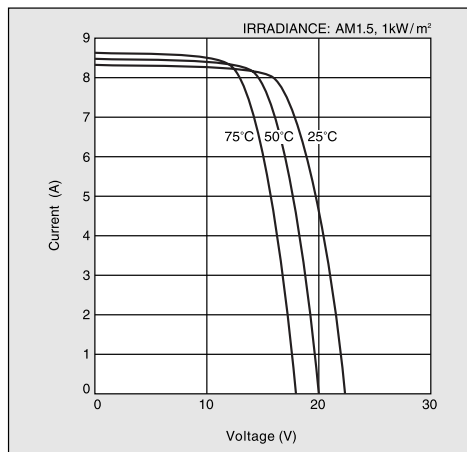
※ Limited warranty on material and workmanship: For warranty period, please refer to Warranty issued by Kyocera

※ 25 years limited warranty on power output: For detail, please refer to "category IV" in Warranty issued by Kyocera

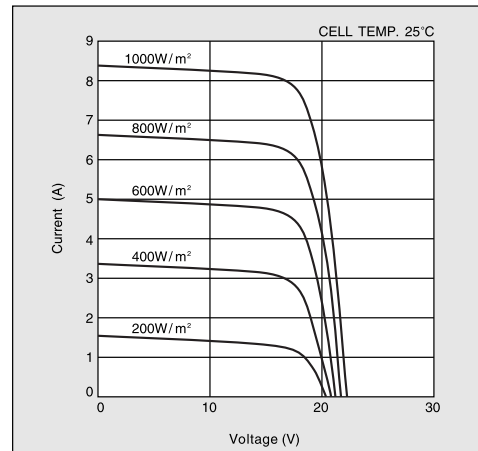
(Long term output warranty shall warrant if PV Module(s) exhibits power output of less than 90% of the original minimum rated power specified at the time of sale within 10 years and less than 80% within 25 years after the date of sale to the Customer. The power output values shall be those measured under Kyocera's standard measurement conditions. Regarding the warranty conditions in detail, please refer to Warranty issued by Kyocera)

ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KD145GH-4PU at various cell temperatures at Kyocera Corporation laboratory.



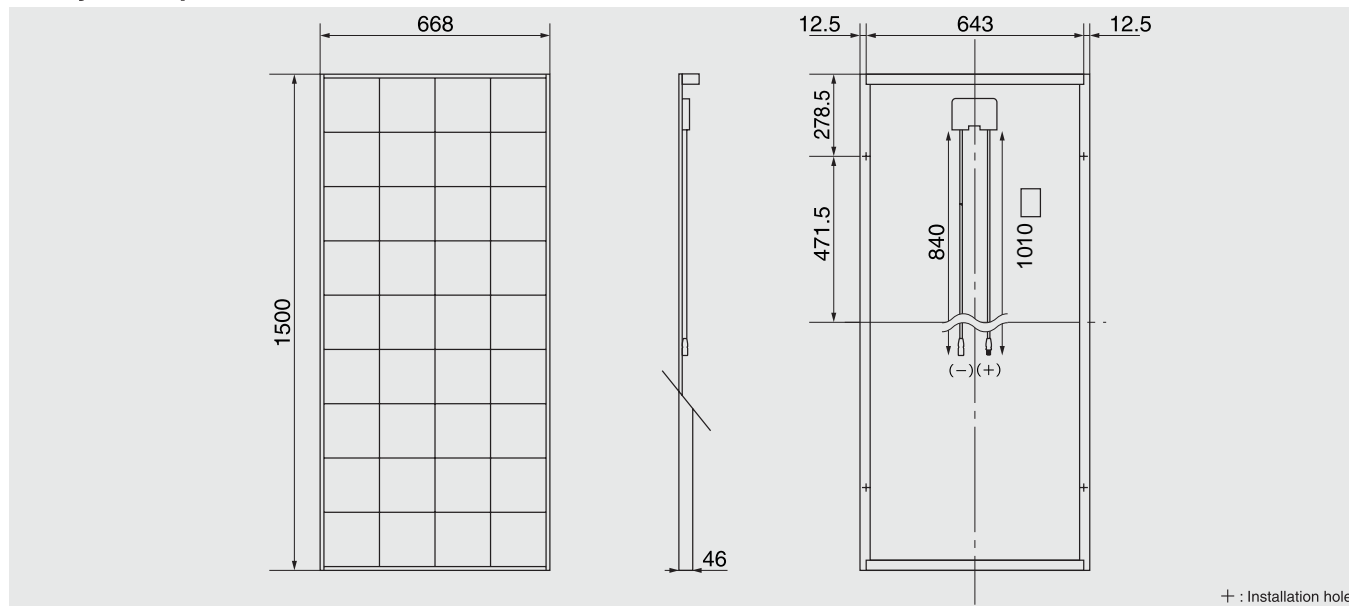
Current-Voltage characteristics of Photovoltaic Module KD145GH-4PU at various irradiance levels at Kyocera Corporation laboratory.



SPECIFICATIONS

Physical Specifications

(Unit : mm)



Specifications

Electrical Performance under Standard Test Conditions (*STC)	
Maximum Power (Pmax)	145 (+5%/−5%)
Maximum Power Voltage (Vmpp)	17.9V
Maximum Power Current (Impp)	8.11A
Open Circuit Voltage (Voc)	22.3V
Short Circuit Current (Isc)	8.78A
Max System Voltage	1000V
Temperature Coefficient of Voc	-0.36 %/K
Temperature Coefficient of Isc	0.06 %/K

*STC : Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

Electrical Performance at 800W/m ² ,*NOCT, AM1.5	
Maximum Power (Pmax)	104W
Maximum Power Voltage (Vmpp)	16.1V
Maximum Power Current (Impp)	6.46A
Open Circuit Voltage (Voc)	20.4V
Short Circuit Current (Isc)	7.11A

*NOCT (Nominal Operating Cell Temperature) :45°C

Cells	
Number per Module	36
Cell Technology	Multicrystalline
Cell Shape	Rectangular

Module Characteristics	
Length × Width × Depth without Box	1500×668×46mm
Weight	12.5kg
Cable	(+)1010 / (-)840 mm

Junction Box Characteristics	
Length × Width × Depth	123 x 91.6 x 16 mm
IP Code	IP65
Limiting Reverse Current	15A

Please contact our office for further information



KYOCERA Corporation

KYOCERA Corporation Headquarters

CORPORATE SOLAR ENERGY DIVISION
6 Takeda Tobadono-cho
Fushimi-ku, Kyoto
612-8501, Japan
TEL:(81)75-604-3476 FAX:(81)75-604-3475
<http://www.kyocera.com/>

KYOCERA Solar, Inc.

7812 East Acoma Drive
Scottsdale, AZ 85260, USA
TEL:(1)480-948-8003 or (800)223-9580 FAX:(1)480-483-6431
<http://www.kyocerasolar.com/>

KYOCERA Asia Pacific Pte. Ltd.

298 Tiong Bahru Road, #13 03/05
Central Plaza, Singapore 168730
TEL:(65)6271-0500 FAX:(65)6271-0600