

THE NEW VALUE FRONTIER



KD135GH-2FBS

HIGH EFFICIENCY MULTICRYSTALLINE
PHOTOVOLTAIC MODULE

IEC 61215Ed.2
EN61730



MODEL
KD135GH-2FBS

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), 01 100 528 050018 (Czech Republic), 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

LIMITED WARRANTY

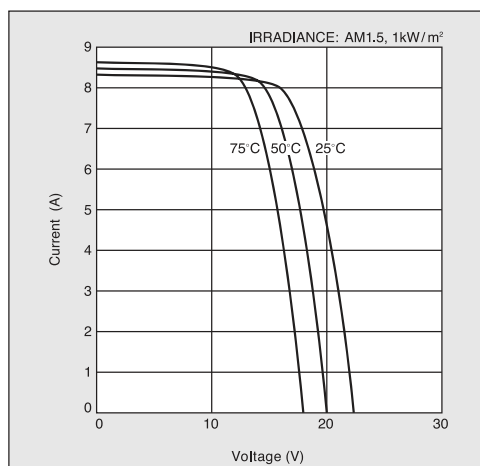
※ 2 year warranty on material and workmanship

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

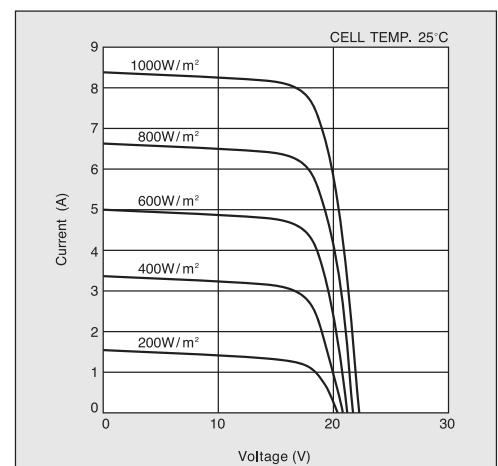
(Long term output warranty shall warrant if PV Module(s) exhibits power output of less than 90% of the original minimum rated power specified at the time of sale within 10 years and less than 80% within 20 years after the date of sale to the Customer. The power output values shall be those measured under 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 KD135GH-2FBS at various cell temperatures

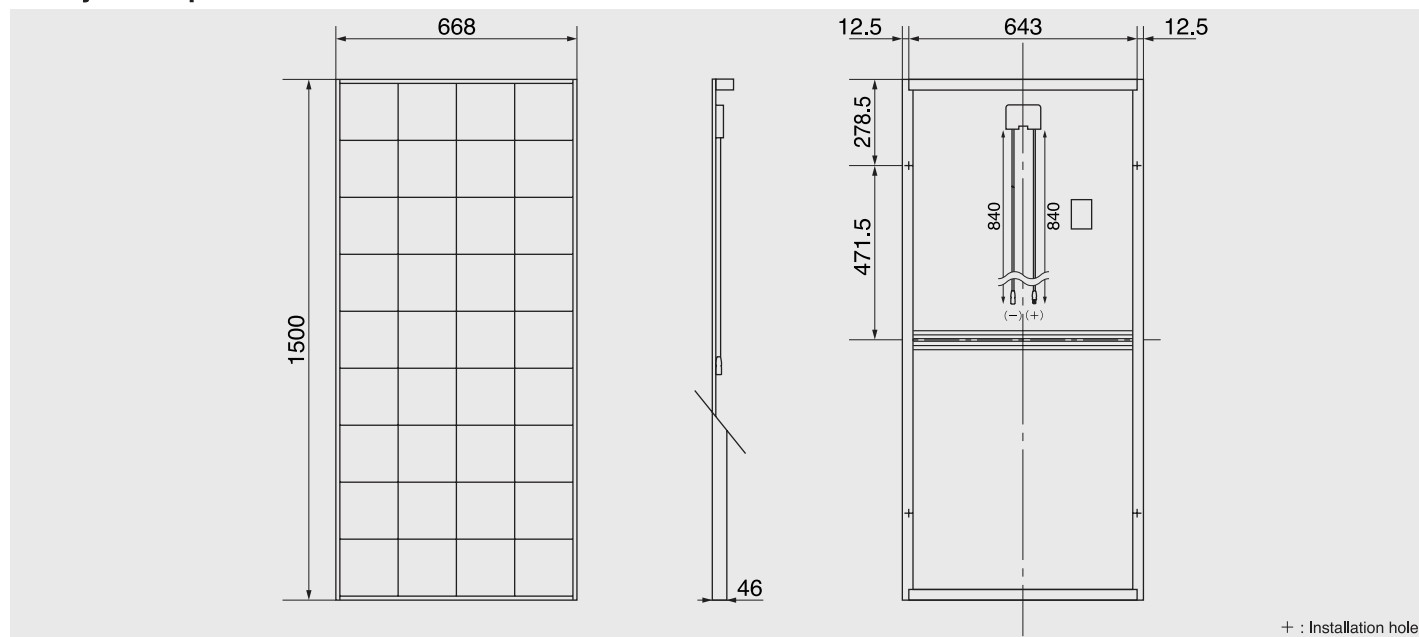


Current-Voltage characteristics of Photovoltaic Module KD135GH-2FBS at various irradiance levels at Kyocera Corporation laboratory.



■ Physical Specifications

(Unit : mm)



■ Specifications

■ Electrical Performance under Standard Test Conditions (*STC)	
Maximum Power (P _{max})	135W (+5%/−5%)
Maximum Power Voltage (V _{mpp})	17.7V
Maximum Power Current (I _{mpp})	7.63A
Open Circuit Voltage (V _{oc})	22.1V
Short Circuit Current (I _{sc})	8.37A
Max System Voltage	1000V
Temperature Coefficient of V _{oc}	−0.80× 10 ^{−1} V/°C
Temperature Coefficient of I _{sc}	5.02× 10 ^{−3} A/°C
■ Electrical Performance at 800W/m ² , *NOCT, AM1.5	
Maximum Power (P _{max})	95W
Maximum Power Voltage (V _{mpp})	15.7V
Maximum Power Current (I _{mpp})	6.10A
Open Circuit Voltage (V _{oc})	20.0V
Short Circuit Current (I _{sc})	6.79A

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

*NOCT (Nominal Operating Cell Temperature) : 47.9°C

■ Cells	
Number per Module	36
Cell Technology	Multicrystalline
Cell Shape	Square

■ Module Characteristics	
Length × Width × Depth without Box	1500× 668× 46mm
Weight	12.9kg
Cable	(+)840/(−)840mm

■ Junction Box Characteristics	
Length × Width × Depth	105× 108× 20mm
IP Code	IP65

■ Reduction of Efficiency under Low Irradiance	
*Reduction	5.8%
Limiting Reverse Current	15A

*Reduction of efficiency from an irradiance of 1000W/m² to 200W/m² (cell temperature 25°C)

Please contact our office for further information



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