

THE NEW VALUE FRONTIER



# KC175GT

HIGH EFFICIENCY MULTICRYSTAL PHOTOVOLTAIC MODULE

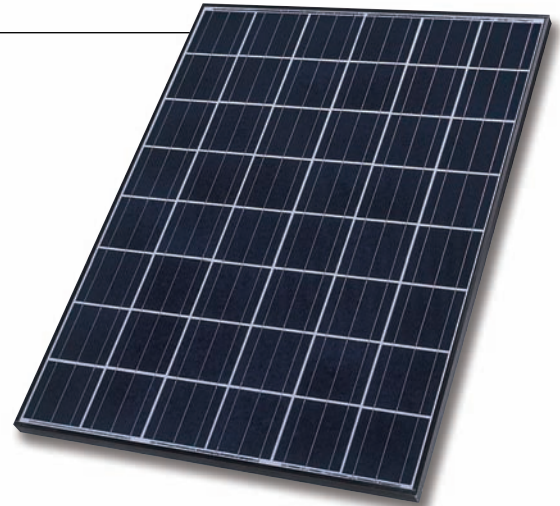


## HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

Kyocera's advanced cell processing technology and automated production facilities produce a highly efficient multicrystal photovoltaic module.

The conversion efficiency of the Kyocera solar cell is over 16%. These cells are encapsulated between a tempered glass cover and a pottant with PVF back sheet to provide efficient protection from the severest 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

**KC175GT is ideal for grid tie system applications.**

- Residential roof top systems
- Large commercial grid tie systems
- Water Pumping systems
- High Voltage stand alone systems
- etc.

## QUALIFICATIONS

- **MODULE** : UL1703 certified
- **FACTORY** : ISO9001 and ISO 14001

## QUALITY ASSURANCE

**Kyocera multicrystal photovoltaic modules have passed the following tests.**

- Thermal cycling test
- Thermal shock test
- Thermal / Freezing and high humidity cycling test
- Electrical isolation test
- Hail impact test
- Mechanical, wind and twist loading test
- Salt mist test
- Light and water-exposure test
- Field exposure test

## LIMITED WARRANTY

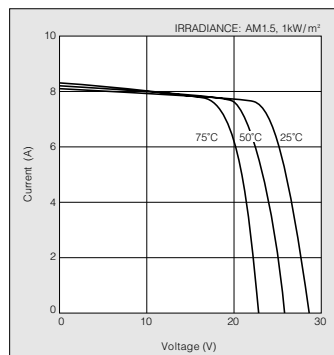
※1 year limited warranty on material and workmanship

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

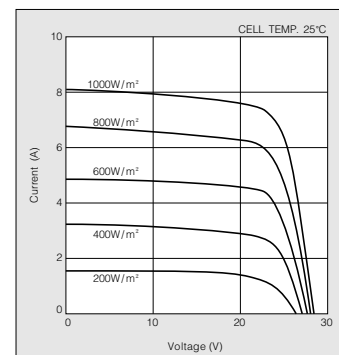
(Long term output warranty shall warrant if PV Module(s) exhibits power output of less than 90% of the original minimum rated power specified at the time of sale within 10 years and less than 80% within 20 years after the date of sale to the Customer. The power output values shall be those measured under 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 KC175GT at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC175GT at various irradiance levels



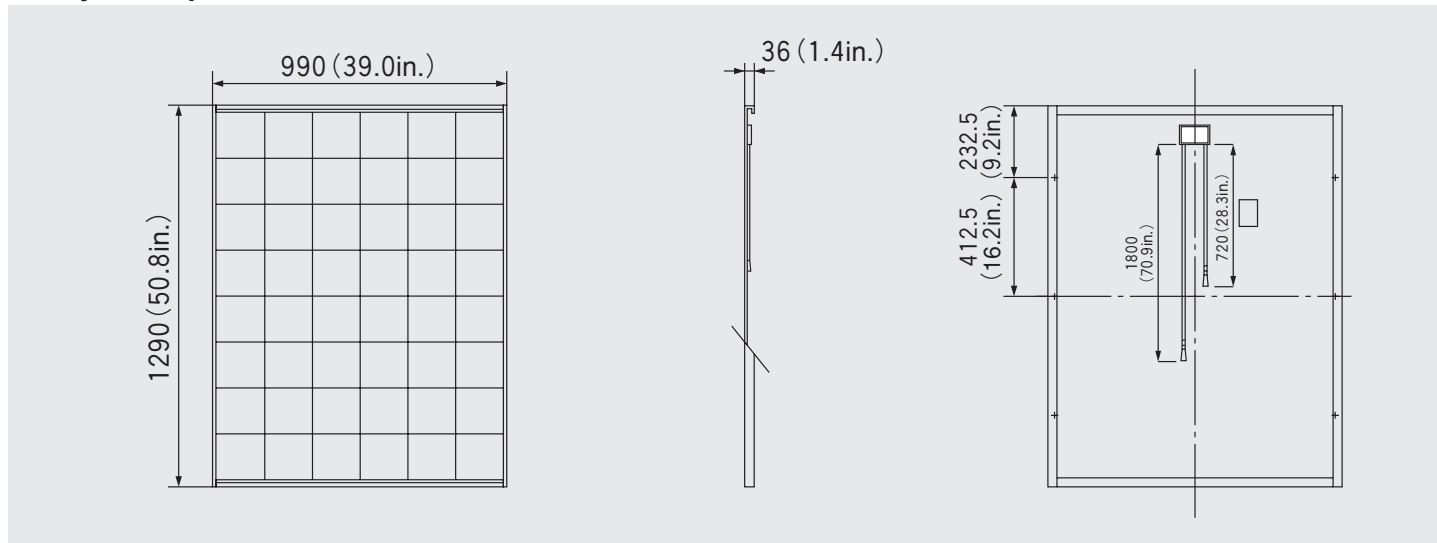
MODEL  
KC175GT

# SPECIFICATIONS

# KC175GT

## Physical Specifications

Unit : mm (in.)



## Specifications

### Electrical Performance under Standard Test Conditions (\*STC)

Maximum Power (Pmax)	175W (+10%/−5%)
Maximum Power Voltage (Vmpp)	23.6V
Maximum Power Current (Impp)	7.42A
Open Circuit Voltage (Voc)	29.2V
Short Circuit Current (Isc)	8.09A
Max System Voltage	600V
Temperature Coefficient of Voc	−1.09×10 <sup>-1</sup> V/°C
Temperature Coefficient of Isc	3.18×10 <sup>-3</sup> A/°C

\*STC : Irradiance 1000W/m<sup>2</sup>, AM1.5 spectrum, module temperature 25°C

### Electrical Performance at 800W/m<sup>2</sup>, NOCT, AM1.5

Maximum Power (Pmax)	125W
Maximum Power Voltage (Vmpp)	20.9V
Maximum Power Current (Impp)	5.99A
Open Circuit Voltage (Voc)	26.5V
Short Circuit Current (Isc)	6.53A

NOCT (Nominal Operating Cell Temperature) : 47°C

### Cells

Number per Module	48
-------------------	----

### Module Characteristics

Length × Width × Depth	1290mm(50.8in)×990mm(39.0in)×36mm(1.4in)
Weight	16.0kg(35.3lbs.)
Cable	(+)720mm(28.3in), (-)1800mm(70.9in)

### Junction Box Characteristics

Length × Width × Depth	113.6mm(4.5in)×76mm(3.0in)×9mm(0.4in)
IP Code	IP65

### Reduction of Efficiency under Low Irradiance

Reduction	5.1%
-----------	------

Reduction of efficiency from an irradiance of 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> (module temperature 25°C)

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 Solar do Brasil Ltda.

Av. Guignard 661, Loja A  
22790-200, Recreio dos Bandeirantes, Rio de Janeiro, Brazil  
TEL:(55)21-2437-8525 FAX:(55)21-2437-2338  
http://www.kyocerasolar.com.br

### KYOCERA Solar Pty Ltd.

Level 3, 6-10 Talavera Road, North Ryde  
N.S.W. 2113, Australia  
TEL:(61)2-9870-3948 FAX:(61)2-9888-9588  
http://www.kyocerasolar.com.au/

### KYOCERA Fineceramics GmbH

Fritz Muller strasse 107, D-73730 Esslingen, Germany  
TEL:(49)711-93934-917 FAX:(49)711-93934-950  
http://www.kyocerasolar.de/

### KYOCERA Asia Pacific Pte. Ltd.

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

### KYOCERA Asia Pacific Ltd.

Room 801-802, Tower 1 South Seas Centre, 75 Mody Road,  
Tsimshatsui East, Kowloon, Hong Kong  
TEL:(852)2-7237183 FAX:(852)2-7244501

### KYOCERA Asia Pacific Ltd. Taipei Office

10 Fl., No.66, Nanking West Road, Taipei, Taiwan  
TEL:(886)2-2555-3609 FAX:(886)2-2559-4131

### KYOCERA(Tianjin) Sales & Trading Corporation

19F, Tower C HeQiao Building 8A GuangHua Rd.,  
Chao Yang District, Beijing 100026, China  
TEL:(86)10-6583-2270 FAX:(86)10-6583-2250