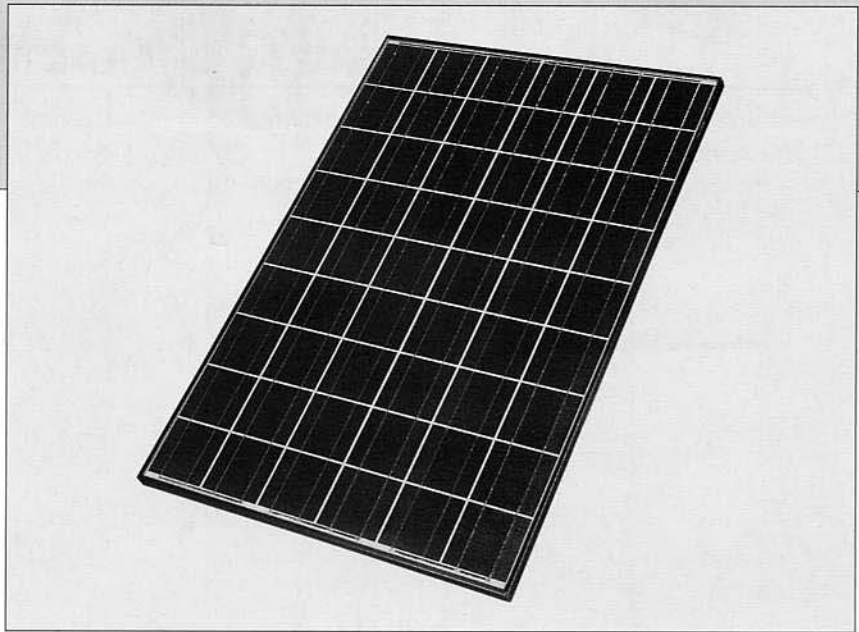


THE NEW VALUE FRONTIER



# KC187G

## 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 15%

These cells are encapsulated between a tempered glass cover and an EVA pottant with back sheet to provide maximum 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

KC187G is ideal for grid tie system applications.

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

### QUALIFICATIONS

■ **MODULE**  
UL1703 certified

■ **FACTORY**  
ISO9001 and ISO14001

### PERFORMANCE WARRANTY

25 year\* limited warranty on power output

### SPECIFICATIONS

#### ■ Electrical Specifications

MODEL	KC187G
Maximum Power	187 Watts
Maximum Power Voltage	26.1 Volts
Maximum Power Current	7.17 Amps
Open Circuit Voltage	32.5 Volts
Short-Circuit Current	7.96 Amps
Length	1425mm (56.2in.)
Width	990mm (39.0in.)
Depth	36mm (1.4in.)
Weight	18.5kg (40.7lbs.)

#### ■ Thermal parameters

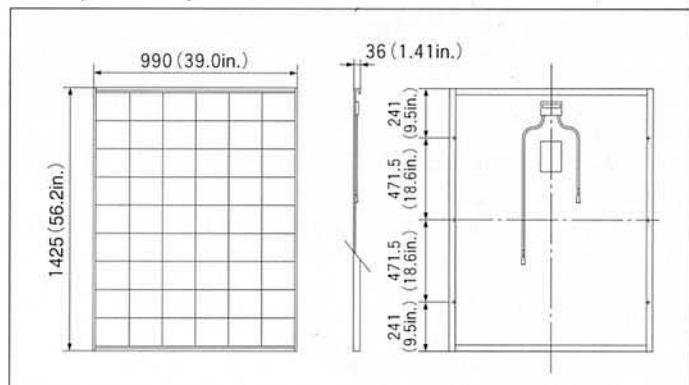
Nominal Operating Cell Temperature	47°C
Isc Current temperature coefficient (A/°C)	(3.18 × 10 <sup>-3</sup> ) A/°C
Voc Voltage temperature coefficient (V/°C)	(-1.23 × 10 <sup>-1</sup> ) V/°C

Note: The electrical specifications are under test conditions of Irradiance of 1kw/m<sup>2</sup>, Spectrum of 1.5 air mass and cell temperature of 25°C

Kyocera reserves the right to modify these specifications without notice

#### ■ Physical Specifications

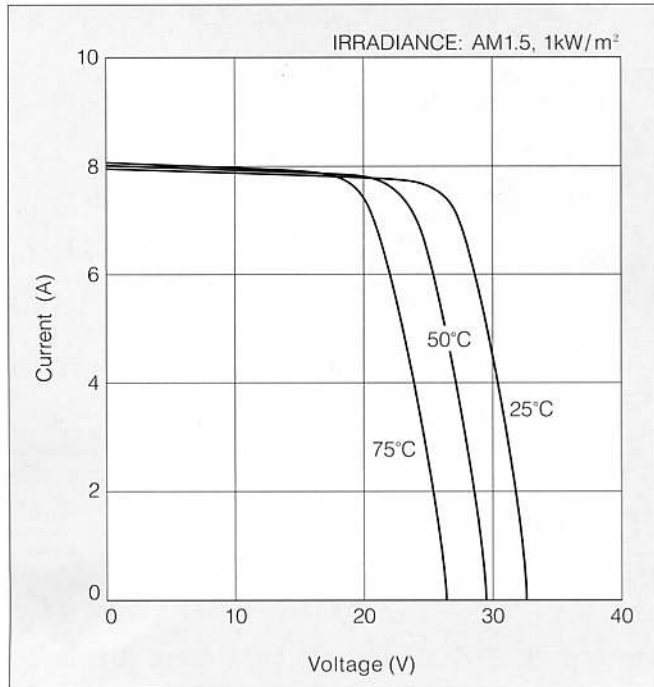
(Unit: mm)



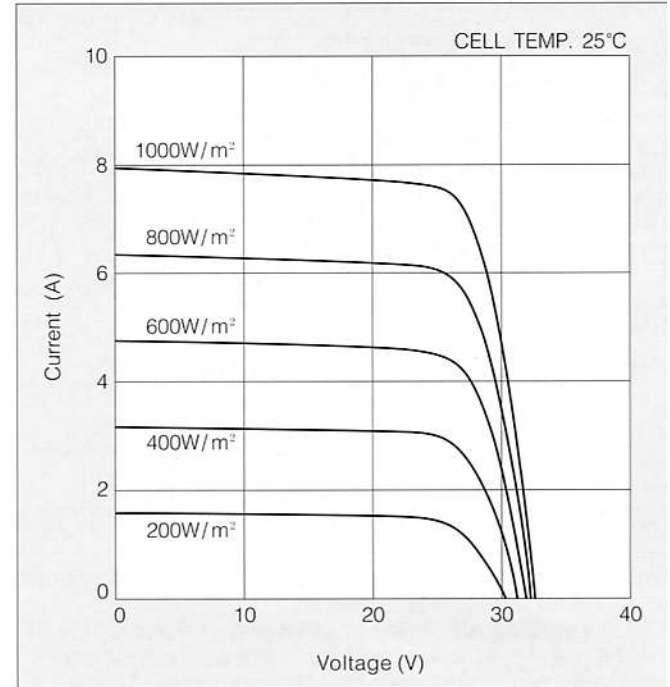
\*\*Power output of the module after 25 years will not be less than 80% of the minimum power specified in the data sheet.

# ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC187G at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC187G at various irradiance levels



## QUALITY ASSURANCE

Kyocera multicrystal photovoltaic modules exceed government specifications for 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

Please contact our office to obtain details without hesitation.



KYOCERA Corporation

### ■ KYOCERA HEAD OFFICE

SOLAR ENERGY DIVISION  
6 Takeda Tobadono-cho  
Fushimi-ku, Kyoto  
612-8501 Japan  
Phone:(81)75-604-3476 Telefax:(81)75-604-3475  
<http://www.kyocera.co.jp>

### ● KYOCERA FINECERAMICS GmbH

Fritz Muller StraÙe 107, D-73730 Esslingen, F.R.G.  
Phone:(49)711-9393417 Telefax:(49)711-9393450

### ● KYOCERA ASIA PACIFIC PTE. LTD.

298 Tiong Bahru Road, #13-03/04/05  
Central Plaza, Singapore 168730  
Phone:(65)271-0500 Telefax:(65)271-0600

### ● KYOCERA ASIA PACIFIC LTD.

Room 803, Tower 1 South Seas Centre, 75 Mody Road,  
Tsimshatsui East, Kowloon Hong Kong  
Phone:(852)2-7237183 Telefax:(852)2-7244501

### ● KYOCERA ASIA PACIFIC LTD., TAIPEI BRANCH

Suite 501, Asia Enterprise Center,  
No.142-144, Sec. 3, Min Chuan E.Road Taipei, Taiwan  
Phone:(886)2-2718-3595 Telefax:(886)2-2718-3587

### ● KYOCERA Solar, Inc.

7812 East Acoma Drive  
Scottsdale, AZ 85260  
Phone:(480)948-8003 or (800)223-9580 Telefax:(480)483-6431

### ● KYOCERA Solar Pty, Ltd.

Cnr Forbes St & Riverside Drive  
West End, QLD, 4102 Australia  
Phone:(61)7-3844-6686 Telefax:(61)7-3844-8569

### ● KYOCERA Solar do Brazil Ltda.

R.Mauricio da Costa Faria, 85  
Recreio dos Bandeirantes-Rio de Janeiro  
Cep:22.790-280  
Phone:(55)21-2437-8525 Telefax:(55)21-2437-2338