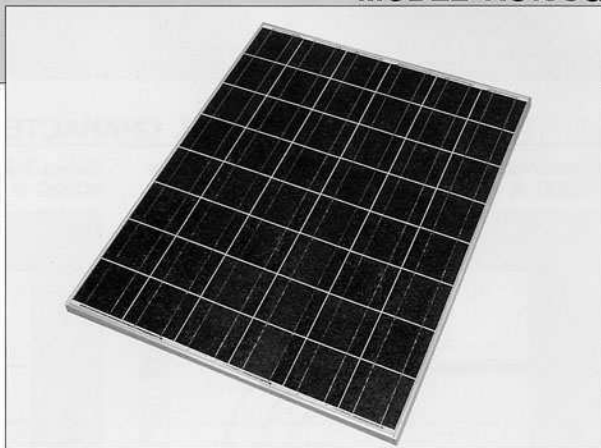


**MODEL KC158G**

# KC158G

## 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 14%

These cells are encapsulated between a tempered glass cover and an EVA pottant with back sheet to provide maximum protection from the severest environment 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

KC158G 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

UL1703 certified.

### PERFORMANCE WARRANTY

25 year\* limited warranty on power output

### SPECIFICATIONS

#### ■ Electrical Specifications

MODEL	KC158G
Maximum Power	158 Watts
Maximum Power Voltage	23.2 Volts
Maximum Power Current	6.82 Amps
Open Circuit Voltage	28.9 Volts
Short-Circuit Current	7.58 Amps
Length	1290mm (50.8in.)
Width	990mm (39.0in.)
Depth	36mm (1.4in.)
Weight	16.0kg (35.3lbs.)

#### ■ Thermal parameters

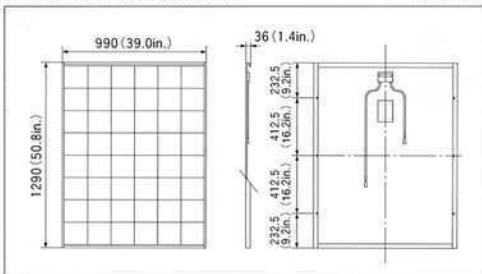
Nominal Operating Cell Temperature	47°C
Isc Current temperature coefficient (A/°C)	(6.08×10 <sup>-3</sup> ) A/°C
Voc Voltage temperature coefficient (V/°C)	(-1.10×10 <sup>-3</sup> ) V/°C

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

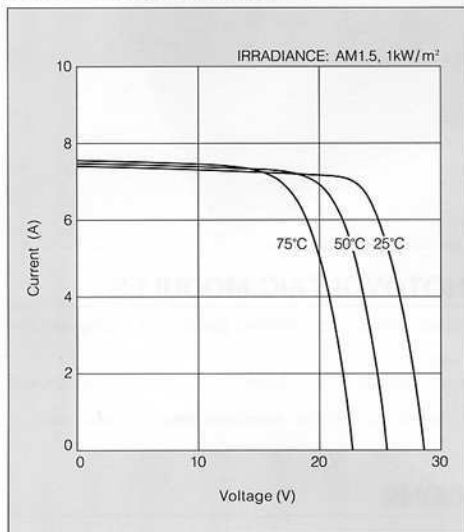
(Unit: mm)



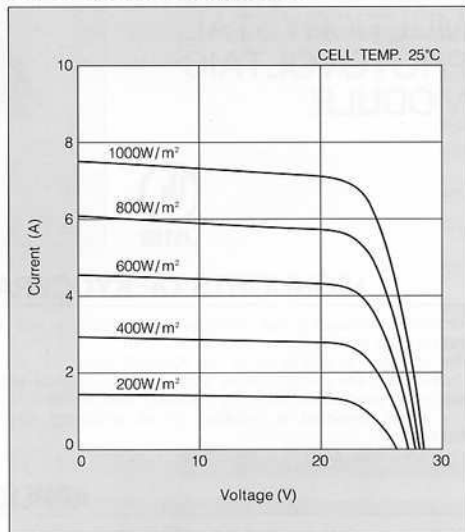
\*Power output of the module after 25 years will not be less than 80% of the minimum power specified in the data sheet.

## ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC158G at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC158G 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.



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