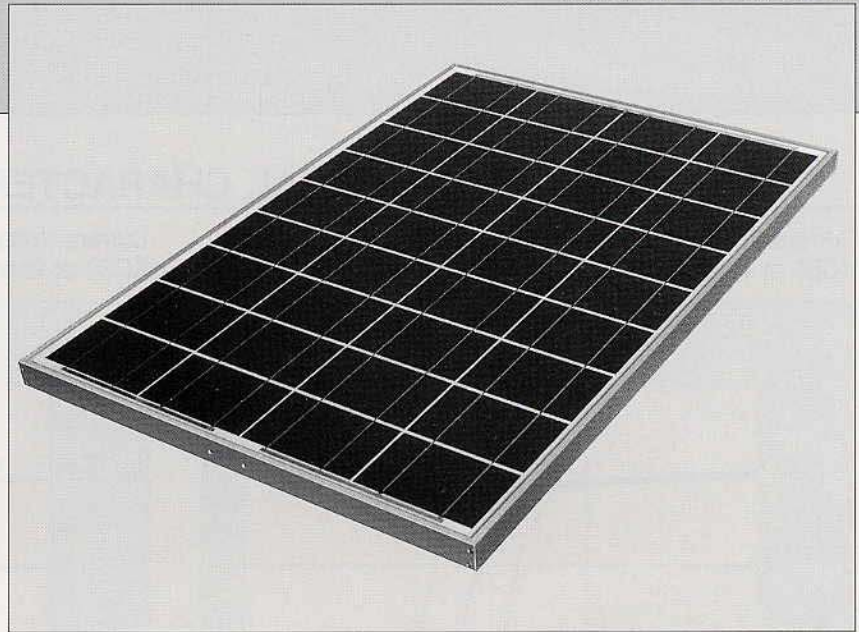


# KC80

## HIGH EFFICIENCY MULTICRYSTAL PHOTOVOLTAIC MODULE

TYPICAL OUTPUT 80 Wp



### HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

Kyocera's advanced cell processing technology and automated production facilities have produced a highly efficient multicrystal photovoltaic modules.

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 PVF 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.

### APPLICATIONS

- Microwave/Radio repeater stations
- Electrification of villages in remote areas
- Medical facilities in rural areas
- Power source for summer vacation homes
- Emergency communication systems
- Water quality and environmental data monitoring systems
- Navigation lighthouses, and ocean buoys
- Pumping systems for irrigation, rural water supplies and livestock watering
- Aviation obstruction lights
- Cathodic protection systems
- Desalination systems
- Recreational vehicles
- Railroad signals
- Sailboat charging systems

### SPECIFICATIONS

#### ■ Electrical Specifications

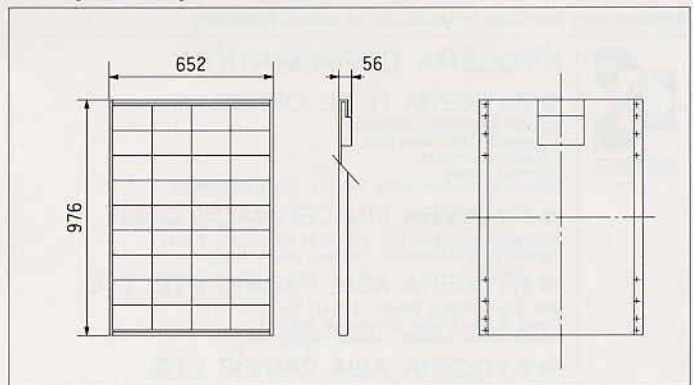
MODEL	KC80
Maximum Power	80 Watts
Maximum Power Voltage	16.9 Volts
Maximum Power Current	4.73 Amps
Open Circuit Voltage	21.5 Volts
Short-Circuit Current	4.97 Amps
Length	976mm (38.4in.)
Width	652mm (25.7in.)
Depth	56mm (2.2in.)
Weight	8.0kg (17.7lbs.)

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.

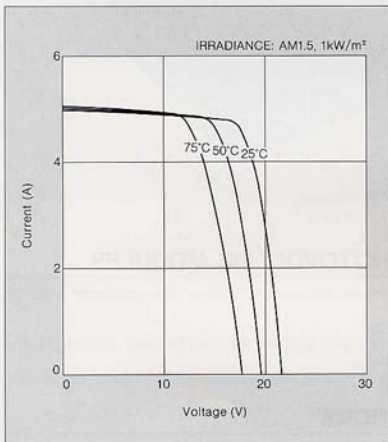
#### ■ Physical Specifications

(Unit: mm)

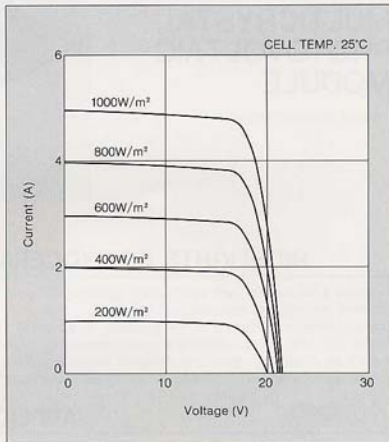


## ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC80 at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC80 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 Taiseda, Tobayama-cho  
Fushimi-ku, Kyoto  
612-8501 Japan  
Phone: (81)75-604-3476 Telefax: (81)75-604-3475

#### ● KYOCERA FINECERAMICS GmbH

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

#### ● KYOCERA ASIA PACIFIC PTE. LTD.

296 Tiong Bahru Road, #13-03/05  
Tiong Bahru 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 Acorna Drive  
Scottsdale, AZ 85206  
Phone: (480)948-5003 or (800)223-9580 Telefax: (480)483-6431

#### ● Kyocera Solar, Inc. -Sunelco Division

100 Skeels Street  
P.O.Box 787  
Hamilton, MT 59840  
Phone: (406)363-6924 or (800)338-6844 Telefax: (406)363-6046

#### ● Kyocera Solar Pty. Ltd.

36 Windsor Street, Unit 6  
Sturtford 4003  
Queensland, Australia  
Phone: (61)7-3856-5388 Telefax: (61)7-3856-5443

#### ● Kyocera Solar Argentina S.A.

Maipo 2145, 6646 Martinez  
Provincia de Buenos Aires  
Argentina  
Phone: (54)11-4836-1040 Telefax: (54)11-4836-1381

#### ● Kyocera Solar do Brazil Ltda.

Energia Renovavel LTDA,  
Rua Maurício da Costa Faria, 85  
22780-280, Recreio, Rio de Janeiro, Brazil  
Phone: (55)21-2437-8525 Telefax: (55)21-2437-2336