



KC120-1

HIGH EFFICIENCY MULTICRYSTAL PHOTOVOLTAIC MODULE

TYPICAL OUTPUT 120 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

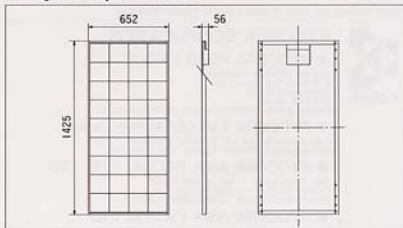
MODEL	KC120-1
Maximum Power	120 Watts
Maximum Power Voltage	16.9 Volts
Maximum Power Current	7.10 Amps
Open Circuit Voltage	21.5 Volts
Short-Circuit Current	7.45 Amps
Length	1425mm (56.1in.)
Width	652mm (25.7in.)
Depth	56mm (2.2in.)
Weight	11.9kg (26.3lbs.)

Note: The electrical specifications are under test conditions of Irradiance of 1kW/m², Spectrum of 1.5 air mass and cell temperature of 25°C

Kyocera reserves the right to modify these specifications without notice.

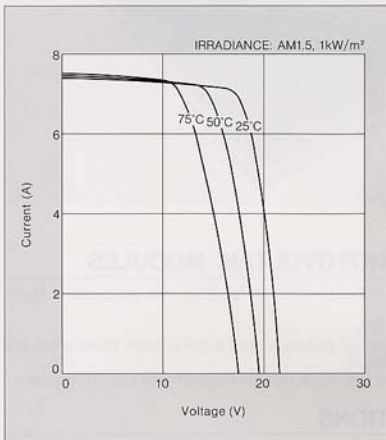
■ Physical Specifications

(Unit: mm)

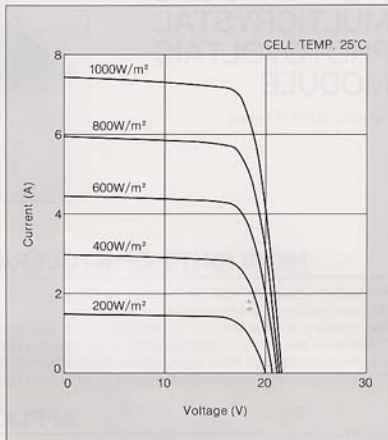


ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC120-1 at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC120-1 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

SCALAR ENERGY DIVISION
6 Taketada Tobadono-cho
Fushimi-ku, Kyoto
612-8501, Japan
Phone: (81)75-604-3476 Telefax: (81)75-604-3475

● KYOCERA FINECERAMICS GmbH

Fritz Muller StraÙe 107, D-73730 Esslingen, F.R.G.
Phone: (49)714-9203417 Telefax: (49)714-9203450

● KYOCERA ASIA PACIFIC PTE. LTD.

28B Tiong Bahru Road, # 03-03/04/05
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,
Tampines 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.

7012 East Acacia Drive
Scottsdale, AZ 85250
Phone: (480)948-8003 or (800)223-9580 Telefax: (480)483-6431

● Kyocera Solar, Inc. -Sunelco Division

F.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
Stifford 4053
Queensland, Australia
Phone: (61)7-3856-5388 Telefax: (61)7-3856-5443

● Kyocera Solar Argentina S.A.

Mejico 2145, (1640) 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 Mauricio da Costa Faria, 85
22780-280, Recreio, Rio de Janeiro, Brazil
Phone: (55)21-2437-0525 Telefax: (55)21-2437-2338