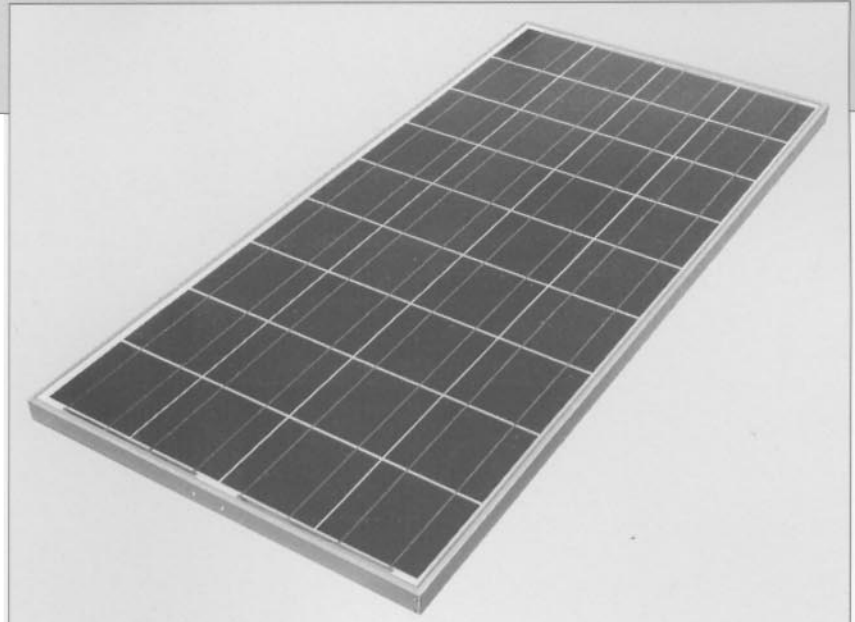




# KC120-1

## 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

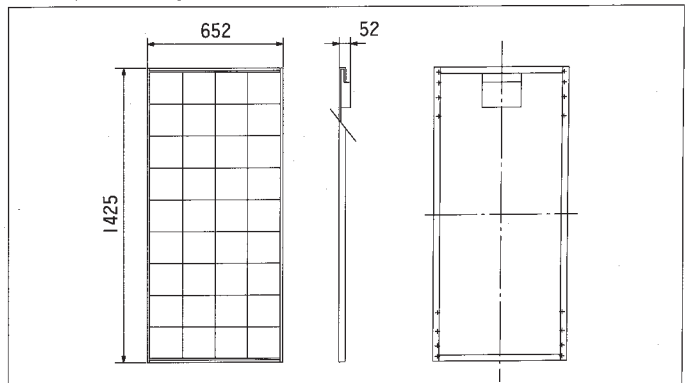
### SPECIFICATIONS

#### ■ 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	52mm (2.0in.)
Weight	11.9kg (26.2lbs.)

#### ■ Physical Specifications

(Unit: mm)

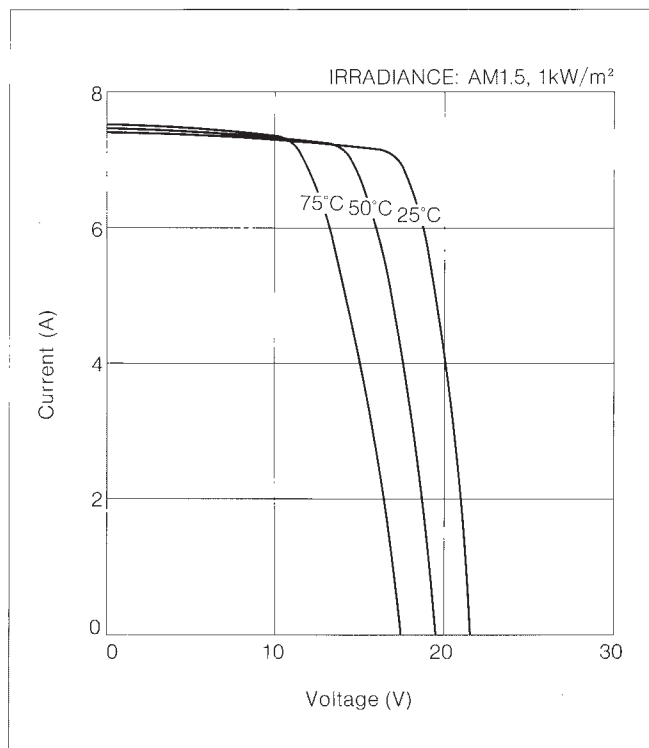


Note: The electrical specifications are under test conditions of Irradiance of 1kW/m<sup>2</sup>, Spectrum of 1.5 air mass and cell temperature of 25°C

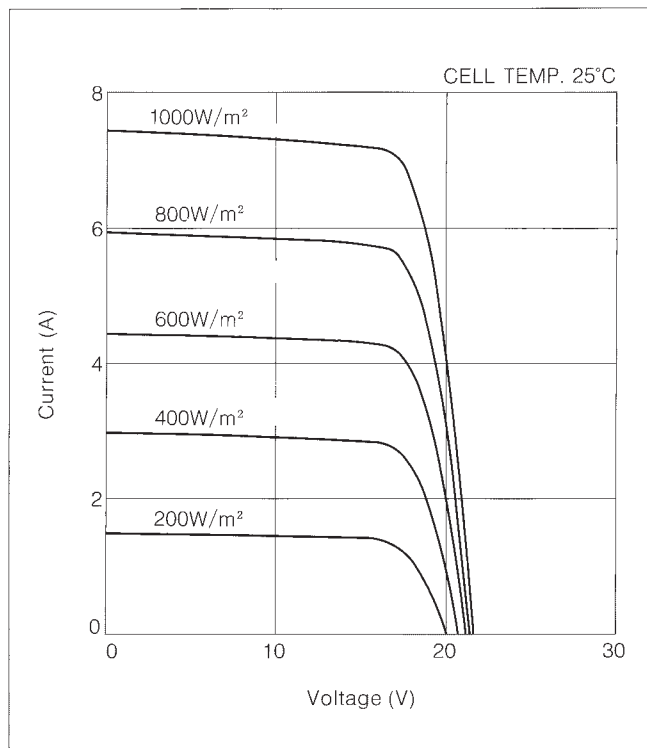
Kyocera reserves the right to modify these specifications without notice.

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

Please contact our office to obtain details without hesitation.



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