



# KC50

## HIGH EFFICIENCY POLYCRYSTALLINE PHOTOVOLTAIC MODULE



Kyocera is "ISO9001" and "ISO14001" certified and registered.  
 TUV dot COM Internet platform for tested quality and service ID 8411005400.

### HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

Kyocera's advanced cell processing technology and automated production facilities produce a highly efficient polycrystalline 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 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

#### Grid-Connected Systems

- Residential Solar Power Systems
- Public and Industrial Solar Power Systems

#### Stand-Alone Solar Power Systems for

- Villages in remote areas
- Homes and summer cottages
- Microwave / Radio repeater stations
- Medical facilities in rural areas

- Emergency communication
- Water quality and environmental data monitoring
- Drinking water and livestock water pumping
- Small-scale irrigation pumping
- Cathodic protection
- Aviation obstruction lights
- Environmental data monitoring
- Railway signals
- Street lighting
- Small-scale desalination

### LIMITED PERFORMANCE WARRANTY

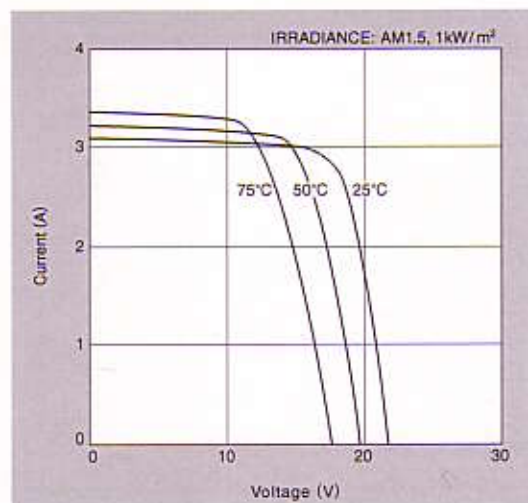
※2 years limited warranty on material and workmanship

※25 years limited warranty on power output.

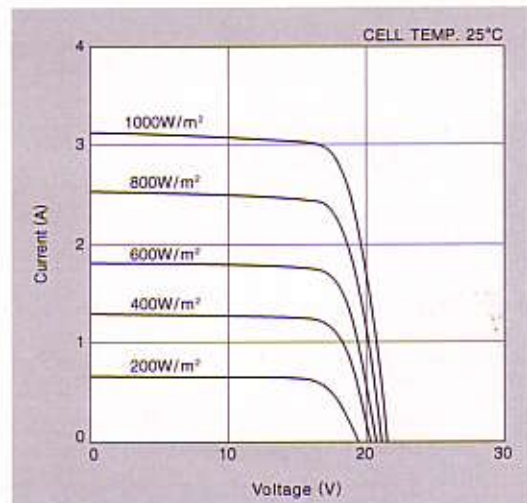
(Long term output warranty shall guarantee that loss of output is not more than 10% of the minimum warranty value of the product specifications within 12 years and is not more than 20% within 25 years after the purchase of the product by customer. The output value shall be measured according to KYOCERA warranty conditions.)

### ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KC50 at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC50 at various irradiance levels

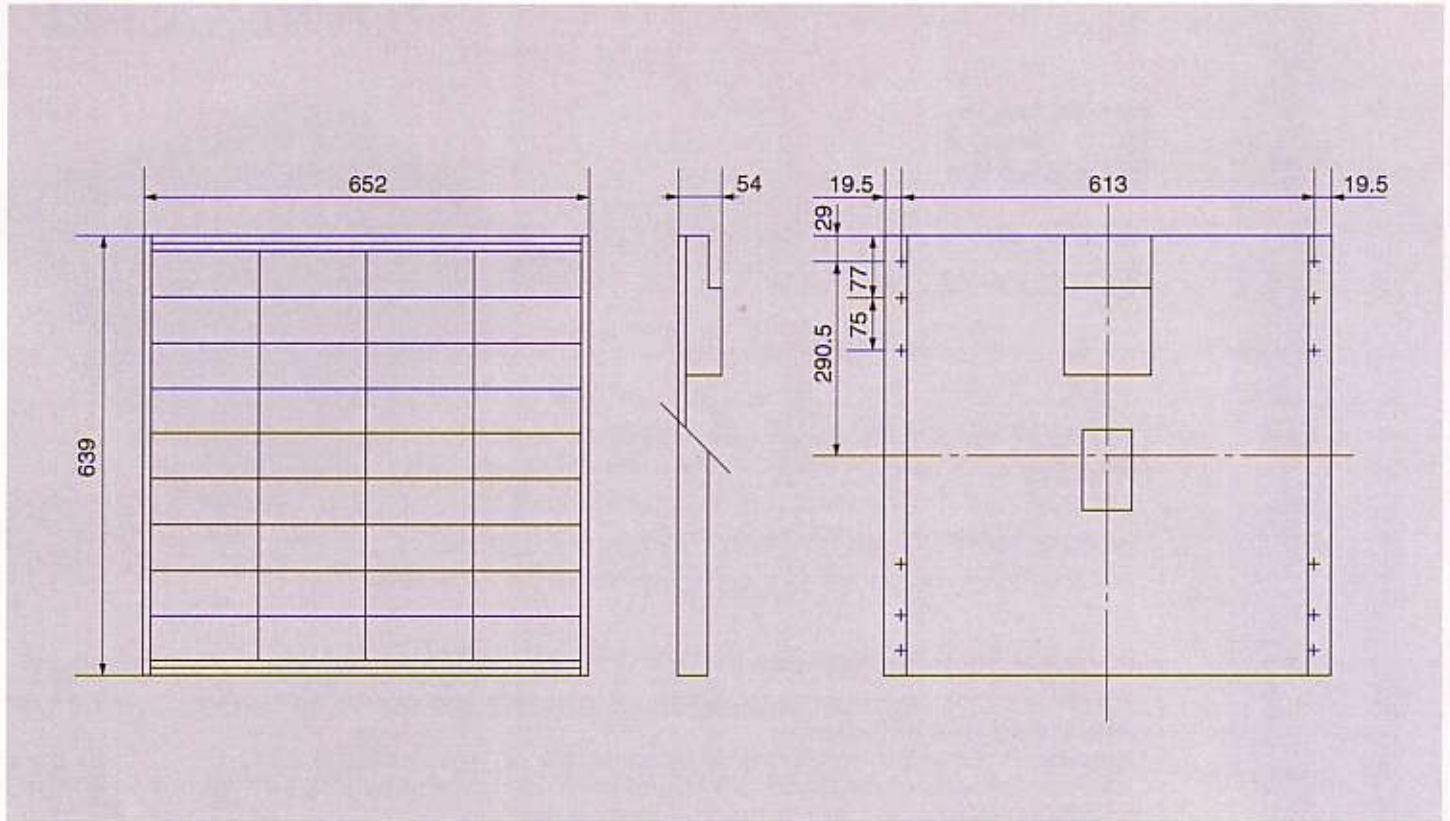


MODEL  
KC50

# SPECIFICATIONS

## Physical Specifications

(Unit : mm)



## Specifications

Electrical Data		
Maximum Power(Pmax)	[ W ]	50
Tolerance	[ % ]	±5
Maximum Power Voltage	[ V ]	16.7
Maximum Power Current	[ A ]	3.00
Open Circuit Voltage (Voc)	[ V ]	21.5
Short Circuit Current (Isc)	[ A ]	3.10
Temp. coefficient of Voc	[ V/°C ]	-8.24×10 <sup>-2</sup>
Temp. coefficient of Isc	[ A/°C ]	2.53×10 <sup>-3</sup>
NOCT	[ °C ]	47
Max System Voltage	[ V ]	750

Dimension		
Length	[ mm ]	639
Width	[ mm ]	652
Depth without box	[ mm ]	36
Weight	[ kg ]	5.0

Cells	
Number per module	36
Cell Technology	Polycrystalline
Cell Shape	Rectangular

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.

Please contact our office to obtain details without hesitation.



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