

KC50

HIGH EFFICIENCY POLYCRYSTALLINE PHOTOVOLTAIC MODULE



Kyocera is a "ISO9001" and "ISO14001" certified and registered company.

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

- 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
- Railroad signals
- Sailboat charging systems

PERFORMANCE WARRANTY

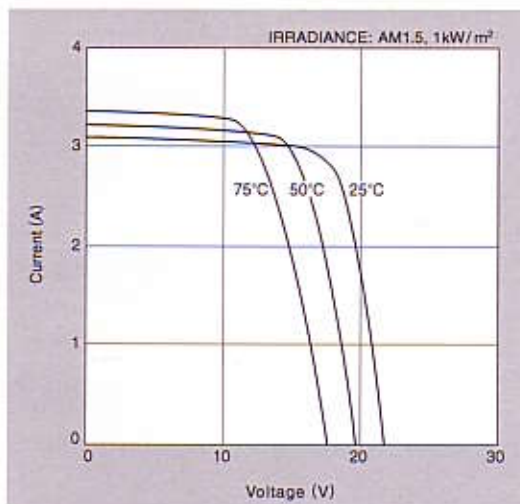
※2 years limited warranty on material and workmanship

※25 years limited warranty on power output.

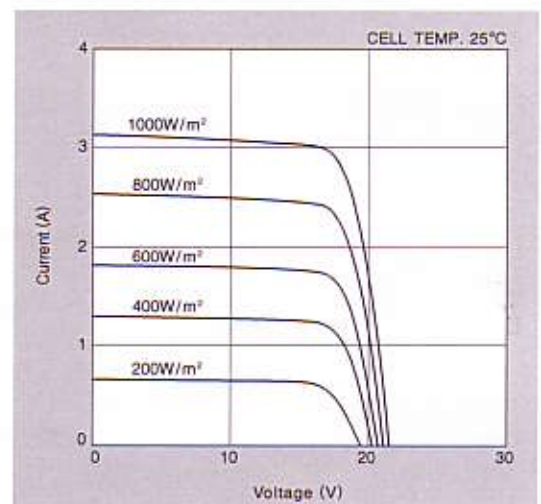
(Long term output warranty shall guarantee that loss of output is not more than 10% of the minimum warranty value of the product specifications within 12 years and is not more than 20% within 25 years after the purchase of the product by KYOCERA Fineceramics GmbH. The output values shall be those measured under Kyocera standard measurement 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

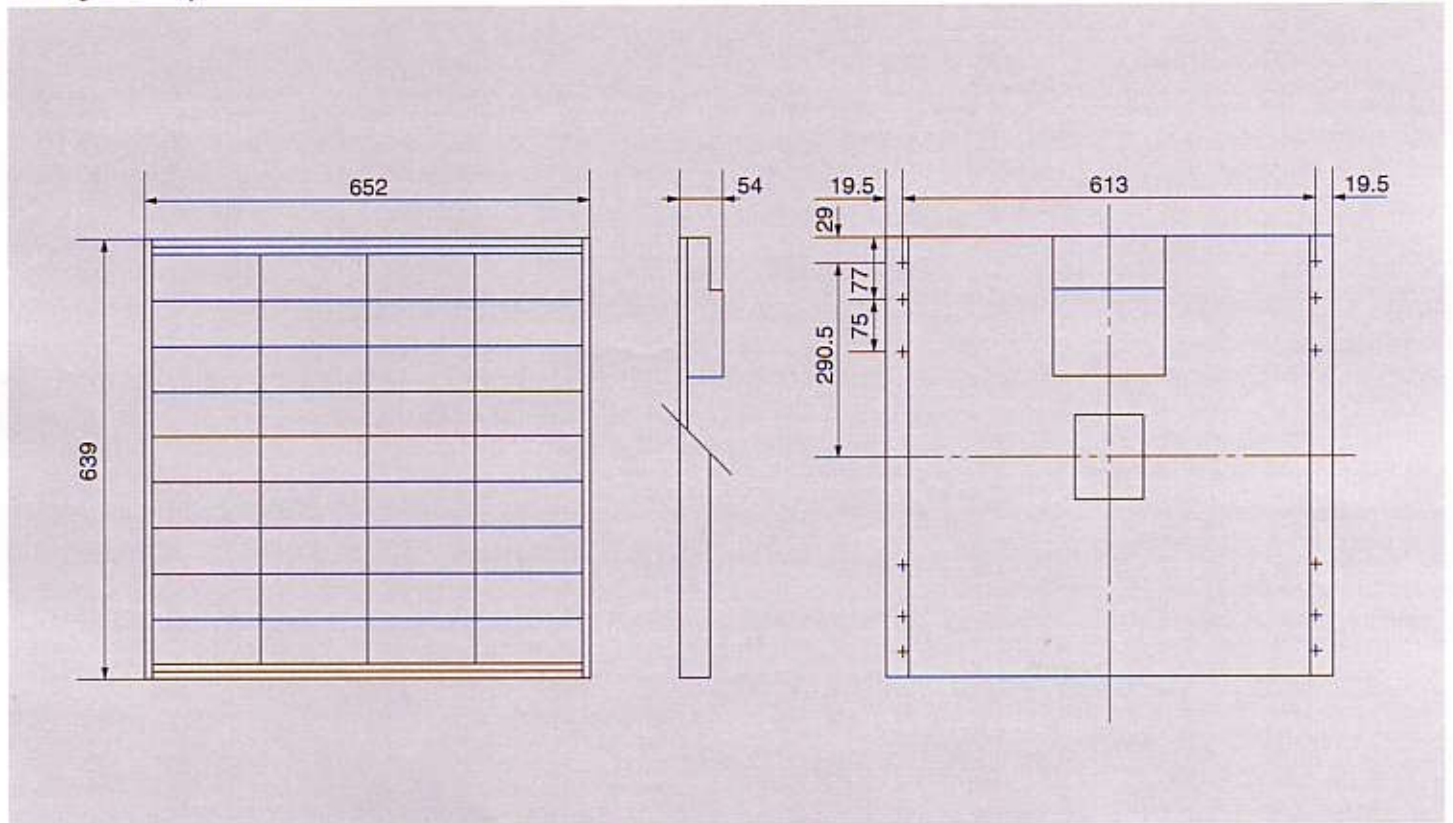


MODEL
KC50

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 ⁻²
Temp. coefficient of Isc	[A/°C]	2.53×10 ⁻³
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/m², 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.



KYOCERA Corporation

KYOCERA HEAD OFFICE

SOLAR ENERGY DIVISION
6 Takeda Tobadono-cho
Fushimi-ku, Kyoto
612-8501 Japan
Phone:(81)75-604-3476 Telefax:(81)75-604-3475
<http://www.kyocera.co.jp>

● KYOCERA Fin ceramics GmbH

Fritz-Mueller-Str. 107, 73730 Esslingen, Germany
Phone:(49)711-93934-17, Telefax:(49)711-93934-50
<http://www.kyocerasolar.de>
E-mail:solar@kyocera.de

● KYOCERA ASIA PACIFIC PTE. LTD.

298 Tiong Bahru Road, #13-03/05
Central Plaza, Singapore 168730
Phone:(65)271-0500 Telefax:(65)271-0600

● KYOCERA Solar, Inc.

7812 East Acema Drive
Scottsdale, AZ 85260
Phone:(480)948-8003 or (800)223-9580 Telefax:(480)483-6431