

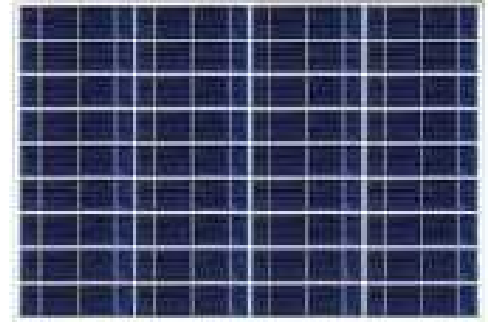
SM-48KSM

48Watt Photovoltaic Module



High-efficiency photovoltaic module using multicrystalline solar cells

- This module is manufactured in ISO9001 certified factories.
- Certification and Standards : IEC61215 ed.2, IEC61730



Limited Warranty

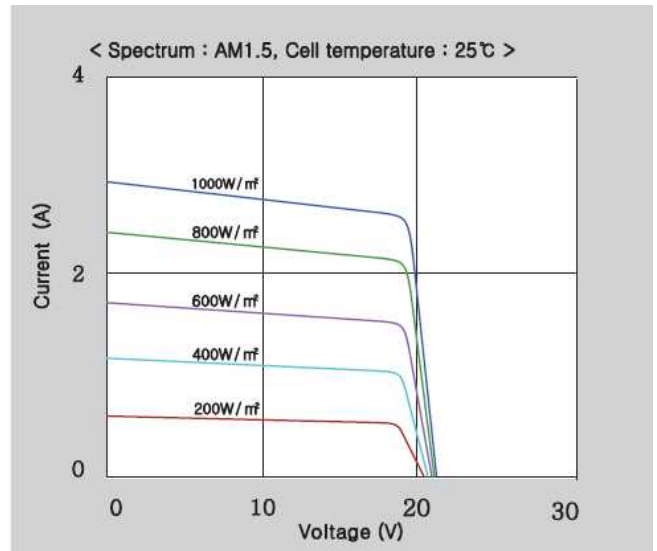
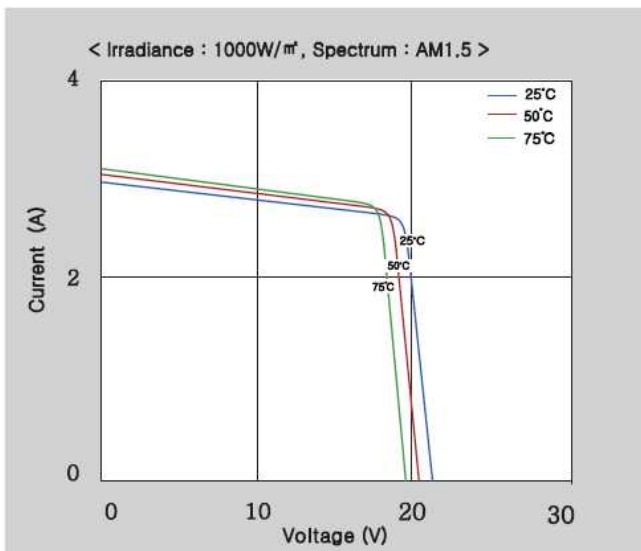
- 2 year limited photovoltaic module warranty
- 20 year limited warranty on power output
- *For detail, please refer to Warranty issued by Kyocera.

(Kyocera warrants that if photovoltaic module(s) exhibits power output of less than 90% of the original minimum rated power specified at the time of sale within 10 years and less than 80% within 20 years after the date of sale to the Customer. The power output values shall be those measured under Kyocera's Standard measurement conditions. Regarding the warranty conditions in detail, please refer to Warranty issued by Kyocera.)

Electrical Characteristics

Current-Voltage characteristics of Photovoltaic Module SM-48KSM at various cell temperatures

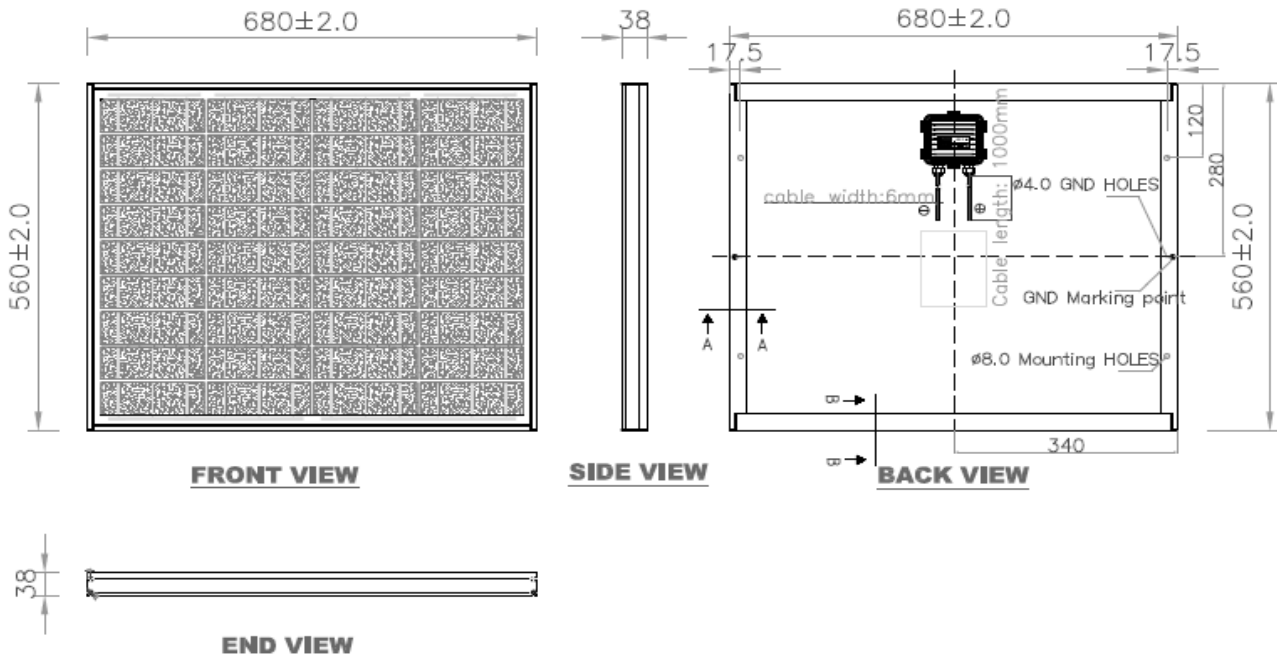
Current-Voltage characteristics of Photovoltaic Module SM-48KSM at various irradiance levels



SM-48KSM

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(unit: mm)



Specifications

Electrical Performance under Standard Test Conditions (*STC)

Maximum Power (Pmax)	48W (+10%/-5%)
Maximum Power Voltage (Vpm)	18.6V
Maximum Power Current (Ipm)	2.59A
Open Circuit Voltage (Voc)	22.1V
Short Circuit Current (Isc)	2.89A
Max System Voltage	600VDC
Temperature Coefficient of Voc	-0.70X10 ⁻¹ V/
Temperature Coefficient of Isc	1.66X10 ⁻³ A/

*STC : Irradiance 1000W/m², AM 1.5 spectrum, cell temperature 25

Electrical Performance at 800W/m², *NOCT, AM1.5

Maximum Power (Pmax)	34W
Maximum Power Voltage (Vpm)	17.1V
Maximum Power Current (Ipm)	2.02A
Open Circuit Voltage (Voc)	20.5V
Short Circuit Current (Isc)	2.26A

* NOCT(Nominal Operating Cell Temperature) : 47

Module Characteristics

Number of Cells	36 cells
Cell Technology	Multicrystalline
Length X Width X Depth without Box	560 X 680 X 38 mm
Weight	4.5kg
Cable	1000mm (+/-)

Junction Box Characteristics

Length X Width X Depth	98X100X25mm
IP Code	IP65

Others

Series Fuse Rating	6A
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NOTE : This publication summarizes product warranty and specification, which are subject to change without notice