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Kyocera 205W PV Module, Poly, Framed, Clear, 12V, KC205

\$900.00



High Efficiency Multicrystal Photovoltaic Module

Kyocera solar modules are a reliable, virtually maintenance-free power supply designed to convert sunlight into electricity at the highest possible efficiency. Kyocera began researching photovoltaics in 1975 and has installed thousands of systems throughout the world since 1978. These systems are ideal for charging storage batteries to power remote homes, recreational vehicles, boats, telecommunications systems and other consumer and commercial applications.

[download the KC85T Spec Sheet](#)

Kyocera's advanced cell-processing technology and automated production facilities produce highly efficient multi-crystal photovoltaic modules. To protect the cells from the most severe environmental conditions, they are encapsulated between a tempered glass cover and an EVA pottant with a PVF back sheet. The entire laminate is installed in an anodized aluminum frame for structural strength and ease of installation.

Features:

- Kyocera's advanced cell processing technology and automated production facilities produce highly efficient multicrystal photovoltaic modules.
- The conversion efficiency of the Kyocera solar cell is over 16%.
- These cells are encapsulated between a tempered glass cover and a pottant with back sheet to provide efficient 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
- Pumping systems for irrigation, rural water supplies and livestock watering
- Desalination systems
- Recreational vehicles
- Sailboat charging systems
- And more

Specifications

| Electrical Performance Under Standard Test Conditions (STC*) | |
|--|--|
| Maximum Power (Pmax): | 87 W (+10% / -5%) |
| Maximum Power Voltage (Vmpp): | 17.4 V |
| Maximum Power Current (Impp): | 5.02 A |
| Open Circuit Voltage (Voc): | 21.7 V |
| Short Circuit Current (Isc): | 5.34 A |
| Maximum System Voltage: | 600 V |
| Temperature Coefficient of Voc: | -8.21 x 10 ⁻² V / Â°C |
| Temperature Coefficient of Isc: | 2.12 x 10 ⁻³ A / Â°C |
| Electrical Performance at 800 W/m ² , NOCT**, AM1.5 | |
| Maximum Power (Pmax): | 62 W |
| Maximum Power Voltage (Vmpp): | 15.3 V |
| Maximum Power Current (Impp): | 4.06 A |
| Open Circuit Voltage (Voc): | 19.7 V |
| Short Circuit Current (Isc): | 4.31 A |
| Cells | |
| Number per Module: | 36 |
| Module Characteristics | |
| Dimensions (L x W x D): | 1007mm x 652mm x 58mm / 25.2" x 25.7" x 2.3" |
| Weight: | 8.3 kg / 18.3 lbs |
| Junction Box Characteristics | |

| | |
|---|---|
| Dimensions (L x W x D): | 170.6mm x 191.6mm x 51.5mm / 6.7" x 7.5" x 2.0" |
| Weight: | IP65 |
| Qualifications | |
| Module: | UL 1703 certified Hazardous Locations Class I, Div 1, Groups A, B, C and D |
| Factory: | ISO 9001 and ISO 14001 |
| Quality Assurance | |
| Kyocera multicrystal photovoltaic modules have passed 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 | |

*STC: Irradiance 1000W/m², AM 1.5 spectrum, module temperature 25°C

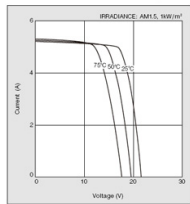
**NOCT (Nominal Operating Cell Temperature): 47°C

Specifications subject to modification and errors.

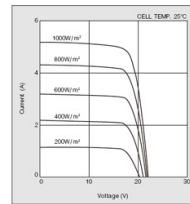
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ELECTRICAL CHARACTERISTICS

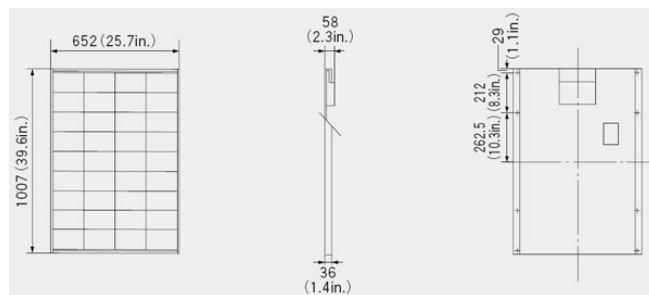
Current-Voltage characteristics of Photovoltaic Module KC85T at various cell temperatures



Current-Voltage characteristics of Photovoltaic Module KC85T at various irradiance levels



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* note: Additional shipping charges apply. You will be contacted immediately after your order.

[Vendor Information](#)

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