KS245P-3CF3C3

HIGH EFFICIENCY MULTI-CRYSTALLINE PHOTOVOLTAIC MODULE

This module has passed 5,400Pa mechanical load test based on IEC61215 ed.2
This module is manufactured in ISO9001 certified factories.
Registered No.: JMI0036 (Japan), CN07/00321 (China).

IEC 61215 ed.2
IEC 61730

HIGHLIGHTS OF KYOCERA PHOTOVOLTAIC MODULES

- Kyocera's advanced cell processing technology and automated production facilities produce highly efficient multi crystalline photovoltaic modules.
- The conversion efficiency of the solar cell is 14.8%.
- These cells are encapsulated between a tempered glass cover and a EVA pottant with back sheet to provide efficient protection from severe environmental conditions.
- The entire laminate is installed an anodized aluminum frame to provide structural strength and ease of installation.
- Equipped with plug in connectors.

APPLICATIONS

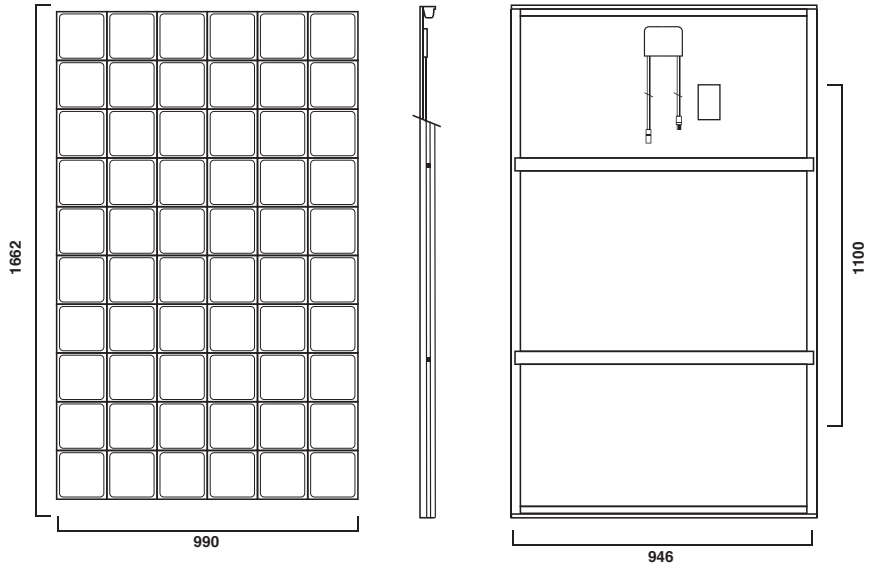
GRID-CONNECTED SYSTEM:	Residential Solar Power Systems Public and Industrial Solar Power
STAND-ALONE SOLAR POWER SYSTEMS FOR:	Villages in remote areas Homes and summer cottages Microwave/Radio repeater stations Medicial facilities in rural areas Emergency communication Water quality and environmental data monitoring Drinking and livestock water pumping Irrigation pumping Cathodic protection Aviation obstruction lighting Environmental data monitoring Railway signals Street lighting Desalination

LIMITED WARRANTY

*Limited warranty on material and workmanship:
For warranty period, please refer to Warranty issued by Kyocera
*25 years limited warranty on power output:
For detail, please refer to "category V" in Warranty issued by Kyocera

(Long term output warranty shall warrant if PV 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 25 years after the date of sale 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)

PHYSICAL SPECIFICATIONS



SPECIFICATIONS

Module Efficiency 14.8%	KS245P-3CF3C3
Electrical Performance and Standard Test Conditions (STC*)	
Maximum Power (Pmax)	245W(+10%,-3)
Maximum Power Voltage (Vpm)	29.8 V
Maximum Power Current (Ipm)	8.23 A
Open Circuit Voltage (Voc)	36.9 V
Short Circuit Current (Isc)	8.91 A
Maximum System Voltage	600 V
Temperature Coefficient of Voc	-1.45×10^{-1} V/°C
Temperature Coefficient of Isc	1.92×10^{-3} A/°C

STC* Spectrum AM1.5, Irradiance level 1kW/m², Cell temperature 25°C

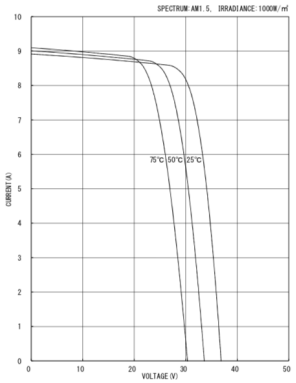
Electrical Performance at Nominal Operating Cell Temperature (NOCT)	
Maximum Power (Pmax)	176W
Maximum Power Voltage (Vpm)	26.8 V
Maximum Power Current (Ipm)	6.57 A
Open Circuit Voltage (Voc)	33.8 V
Short Circuit Current (Isc)	7.21 A

Test Condition: Spectrum AM1.5, Irradiance level 0.8kW/m², Ambient temperature 20°C

Cells	
Number per Module	60
Cell Technology	Multi crystalline
Moldule Characteristics	
Length x Width x Depth without Box	1662 x 990 x 46 mm
Weight	20.0 kg
Cable	(+)720 / (-) 2205
Connector Type	PV-KBT3II
Junction Box Characteristics	
IP Code	IP67
Others	
Reduction*	5.0 %
Limiting Reserse Current	15 A
Mechanical load (to IEC61215 ed.2)	Pressure 5400Pa

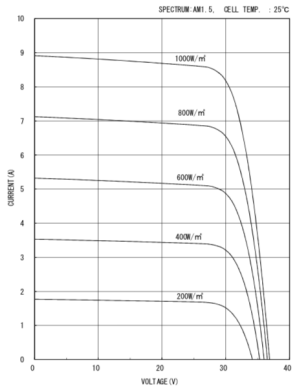
*Reduction of efficiency from an irradiance of 1000W/m² to 200W/m² (Cell temperature 25°C)

ELECTRICAL CHARACTERISTICS



Characteristics of KS245P-3CF3C3 at various cell temperatures.

Current-Voltage characteristics of Photovoltaic Module KS245P-3CF3C3 at various cell temperatures at Kyocera Corporation laboratory.



Characteristics of KS245P-3CF3C3 at various irradiance levels.

Current-Voltage characteristics of Photovoltaic Module KS245P-3CF3C3 at various irradiance level at Kyocera Corporation laboratory.

KYOCERA Corporation

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