



## KK275P-3CD3CG

HIGH EFFICIENCY MULTICRYSTALLINE PHOTOVOLTAIC MODULE

This module has passed 2,400Pa mechanical load test based on IEC61215 ed.2 This module is manufactured in ISO9001 certified factories.

Registered No.: JMI0036 (Japan), CN07/00321 (China), FM26856 (Mexico) TUV.COM Internet platform for tested quality and service ID 0000023299.

IEC61215 Ed2 IEC61730





# 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 Kyocera solar cell is over 18.4%.
- 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 SYSTEMS:

STAND-ALONE SOLAR POWER SYSTEMS FOR:

Residential Solar Power Systems Public and Industrial Solar Power Systems

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

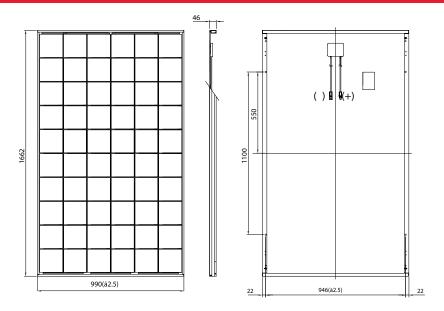
\*25 years limited warranty on power output:

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)

SPECIFICATIONS KK275P-3CD3CG

## **PHYSICAL SPECIFICATIONS**



## **SPECIFICATIONS**

## **ELECTRICAL CHARACTERISTICS**

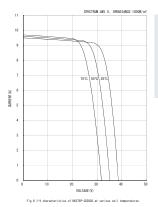
Module Efficiency 16.7%	KK275P-3CD3CG
Electrical Performance under Standard Test Conditions (STC*)	
Maximum Power (Pmax)	275 W (+5/-3%)
Maximum Power Voltage (Vmpp)	31.3 V
Maximum Power Current (Impp)	8.79 A
Open Circuit Voltage(Voc)	38.6 V
Short Circuit Current (Isc)	9.48 A
Max System Voltage	1000 V
Temperature Coefficient of Voc	-1.37 x 10 <sup>-1</sup> V/°C
Temperature Coefficient of Isc	5.56 x 10 <sup>-3</sup> A/°C
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\*STC: Irradiance 1000W/m2, AM1.5 spectrum, module temperature 25  $^{\circ}$ C

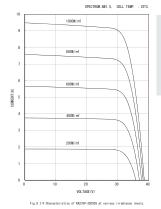
Electrical Performance at 800W/m², NOCT*, AM1.5	
Maximum Power (Pmax)	198W
Maximum Power Voltage	28.2 V
Maximum Power Current	7.03 A
Open Circuit Voltage (Voc)	35.4 V
Short Circuit Current (Isc)	7.67 A

\*NOCT (Nominal Operating Cell Temperature):  $45^{\circ}\!\mathrm{C}$ 

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Cells		
Number per Module	60	
Cell Technology	Multi crystalline	
Module Characteristics		
Length x Width x Depth without Box	1662 x 990 x 46 mm	
Weight	19.0 kg	
Cable	(+)1200 / (-) 1200 mm	
Connector Type	SMK PV-03 Series	
Junction Box Characteristics		
Length x Width x Depth	111 x 90 x 15.9 [mm]	
IP Code	IP 67	
Others		
Reduction*	3.3 %	
Limiting Reverse Current	15 A	
Mechanical load (to IEC61215 ed.2)	Pressure 2400 Pa	
*Reduction of efficiency from an irradiance of 1000W/m2 to 200W/m2 (cell temperature 25 $^{\circ}\mathrm{C}$ )		



Current-Voltage characteristics of Photovoltaic Module KK275P-3CD3CG at various cell temperatures at Kyocera Corporation laboratory.



Current-Voltage characteristics of Photovoltaic Module KK275P-3CD3CG at various irradiance levels at Kyocera Corporation laboratory.

## **KYOCERA Corporation**

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