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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Kyocera Corporation**

**KK270P-3CD8CG**

**KK270P-3CD8CG**

Also available on the web at  
[EnergyPal.com/kyocera-corporation-solar-panels/kk270p-3cd8cg](http://EnergyPal.com/kyocera-corporation-solar-panels/kk270p-3cd8cg)

We care! Since 1975.

# POLYCRYSTALLINE SOLAR MODULES

KK-SERIES: KK270P-3CD8CG



Residential home, Germany

## CUTTING-EDGE TECHNOLOGY



3-busbar, poly



Mechanical Load  
max. 7,000 Pa\*



Anti-reflecting glass



Diamond cut



Junction box encapsulated



LID resistant



PID resistant

\* declaration by TUV (Report 21230679.001 December 2015). Kyocera will not warrant the 7,000 Pa

## COMPANY

### ► Competence and stability:

Founded in 1959 in Kyoto, Japan, Kyocera is now a globally active, financially powerful corporation with 230 subsidiaries.

### ► Quality:

Kyocera Solar, a pioneer in the photovoltaic sector and collaborator in groundbreaking photovoltaic solutions since 1975, is one of the leading manufacturers of solar energy systems. Kyocera was the first company to introduce the series production of polycrystalline silicon solar cells and the patented 3-busbar cell technology in mass production.

### ► Verified longevity:

The reliability and longevity of the products have been verified by proven long-term solutions. For example, systems installed in Japan and Sweden have been providing excellent yields since 1984.

### ► Service:

- Professional Europe-wide customer service in Esslingen/Germany
- Individual maintenance service increases life expectancy of the photovoltaic system

### ► Warranty:

- 10 years warranty
  - 25 years linear performance warranty (a maximum performance degradation of 0,7 % p.y.)
- For further details please look at the warranty conditions.

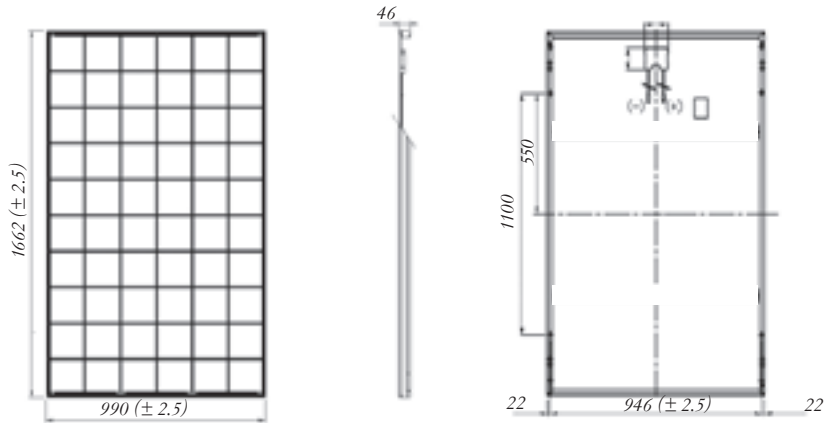
## Kyocera photovoltaic modules meet the highest standards

Kyocera is ISO 9001, ISO 14001 and OHSAS 18001 certified and registered.



## SPECIFICATIONS

in mm



### ELECTRICAL PERFORMANCE

PV Module Type

#### At 1000 W/m<sup>2</sup> (STC)<sup>(1)</sup>

Maximum Power	[W]
Maximum System Voltage	[V]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V <sub>oc</sub> )	[V]
Short Circuit Current (I <sub>sc</sub> )	[A]
Efficiency	[%]

#### At 800 W/m<sup>2</sup> (NOCT)<sup>(2)</sup>

Maximum Power	[W]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V <sub>oc</sub> )	[V]
Short Circuit Current (I <sub>sc</sub> )	[A]
NOCT	[°C]

Power Tolerance	[%]
Maximum Reverse Current I <sub>R</sub>	[A]
Series Fuse Rating	[A]
Temperature Coefficient of V <sub>oc</sub>	[%/K]
Temperature Coefficient of I <sub>sc</sub>	[%/K]
Temperature Coefficient of Max. Power	[%/K]
Reduction of Efficiency (from 1000 W/m <sup>2</sup> to 200 W/m <sup>2</sup> )	[%]

### DIMENSIONS

Length	[mm]
Width	[mm]
Depth / incl. Junction Box	[mm]
Weight	[kg]
Cable	[mm]
Connection Type	[mm]
Junction Box	
Number of bypass diodes	
IP Code	

### CELLS

Number per Module	
Cell Technology	
Cell Shape (square)	[mm]
Cell Bonding	

### GENERAL INFORMATION

Performance Guarantee	
Warranty	

(1) Electrical values under standard test conditions (STC): irradiation of 1000 W/m<sup>2</sup>, air mass AM 1.5 and cell temperature of 25 °C

(2) Electrical values under normal operating cell temperature (NOCT): irradiation of 800 W/m<sup>2</sup>, air mass AM 1.5, wind speed of 1 m/s and ambient temperature of 20 °C

### KK270P-3CD8CG

Maximum Power	270
Maximum System Voltage	1000
Maximum Power Voltage	31
Maximum Power Current	8.71
Open Circuit Voltage (V <sub>oc</sub> )	38.3
Short Circuit Current (I <sub>sc</sub> )	9.43
Efficiency	16.4

Maximum Power	194
Maximum Power Voltage	27.9
Maximum Power Current	6.96
Open Circuit Voltage (V <sub>oc</sub> )	35.1
Short Circuit Current (I <sub>sc</sub> )	7.63
NOCT	45

Power Tolerance	+5 / -3
Maximum Reverse Current I <sub>R</sub>	15
Series Fuse Rating	15
Temperature Coefficient of V <sub>oc</sub>	-0.36
Temperature Coefficient of I <sub>sc</sub>	0.06
Temperature Coefficient of Max. Power	-0.46
Reduction of Efficiency (from 1000 W/m <sup>2</sup> to 200 W/m <sup>2</sup> )	3.3

Length	1662 (± 2.5)
Width	990 (± 2.5)
Depth / incl. Junction Box	46
Weight	19
Cable	(+) 1200 / (-) 1200
Connection Type	PV-03 (SMK)
Junction Box	111 × 90 × 16
Number of bypass diodes	3
IP Code	IP65

Number per Module	60
Cell Technology	polycrystalline
Cell Shape (square)	156 × 156
Cell Bonding	3 busbar

Performance Guarantee	25 years <sup>(3)</sup>
Warranty	10 years <sup>(4)</sup>

(3) 25 years on 80% of the minimally specified power P under standard test conditions (STC)

(4) In the case of Europe

Validated date until May 31, 2017

Your local Kyocera dealer:



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