We care! Since 1975.

SOLAR

POLYCRYSTALLINE SOLAR MODULES

KD-SERIE: KD145GH-4FU



CUTTING-EDGE TECHNOLOGY

Cell:

- · 156 mm × 156 mm
- · Polycrystalline, 3-busbar
- · >16% efficiency
- · Embedded in EVA film
- · Silicon nitride texturing: Minimisation of light reflectivity, homogenous coloration

Frame:

- · Aluminium, black anodised and coated
- · Screwed and also adhered
- · Load capacity: 5,400 N/m² (IEC standard: 2,400 N/m²)
- · Interior drainage openings to protect against frost damage
- · Flexible assembly (horizontal and upright)
- · Approved for module inlay systems

▶ Junction box:

- · Incl. bypass diodes
- · Encapsulated, prevents penetration of moisture
- · Highest fireproof class 5VA in accordance with UL94
- · pre-configured with connection wires and SMK plug connectors

▶ Service:

· Professional Europe-wide customer service in Esslingen/Germany

(Service tested by TÜV)

· Individual maintenance service increases life expectancy of the photovoltaic system

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.

Kyocera photovoltaic modules meet the highest standards

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

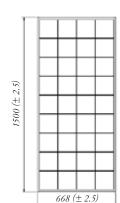




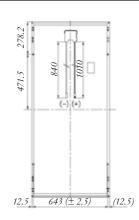












PV Module Type	
At 1000 W/m² (STC)(1)	[) A /]
Maximum Power Maximum System Voltage	[W]
Maximum System Voltage	[V]
Maximum Power Voltage Maximum Power Current	[V]
Open Circuit Voltage (V _{oc})	[V]
Short Circuit Current (I _{sc})	[A]
Efficiency	[%]
At 800 W/m² (NOCT)(2)	
Maximum Power	[W]
Maximum Power Voltage	[V]
Maximum Power Current	[A]
Open Circuit Voltage (V _{oc})	[V]
Short Circuit Current (I _{sc})	[A]
NOCT	[°C]
Power Tolerance	[%]
Maximum Reverse Current I _R	[A]
Series Fuse Rating	[A]
Temperature Coefficient of V _{oc}	[%/K]
Temperature Coefficient of I _{sc}	[%/K]
Temperature Coefficient of Max. Power	[%/K]
Reduction of Efficiency (from 1000 W/m² to 200 W/m²)	[%]
DIMENSIONS	
Length	[mm]
Width	[mm]
Depth/incl. Junction Box	[mm]
Weight	[kg]
Cable	[mm]
Connection Type	
Junction Box	[mm]
Number of bypass diodes	
IP Code	
CELLS	
Number per Module	
Cell Technology	
Cell Shape (square)	[mm]
Cell Bonding	
GENERAL INFORMATION	
Performance Guarantee	
Warranty	

KD145GH-4FU
1.41
145
17.9
8.1
8.78
14.4
14.4
104
16.
6.46
20.4
7.1
45
+5/-5
15
15
-0.36
0.00
-0.46
4.9
1500 (± 2.5
668 (±2.5
46
12.5
(+)1010/(-)840
PV-03 (SMK
123×91.6×16
7
IP65 / IP6
 36
polycrystalline
156 × 156
3-busba
5 50350
10 ⁽³⁾ / 25 years ⁽⁴

- Electrical values under standard test conditions (STC): irradiation of 1000 W/m², airmass AM 1.5 and cell temperature of 25°C
 Electrical values under normal operating cell temperature (NOCT): irradiation of 800 W/m², airmass AM 1.5, wind speed of 1 m/s and ambient temperature of 20°C
- (3) 10 years on 90% of the minimally specified power P under standard test conditions (STC)
 (4) 25 years on 80% of the minimally specified power P under standard test conditions (STC)
 (5) In the case of Europe





KYOCERA Fineceramics GmbH

10 years (5)

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