KYOCERA SOLAR

We care! Since 1975.

POLYCRYSTALLINE SOLAR MODULES

KT-SERIES: KT145-3UC

Apartment house, Germany

CUTTING-EDGE TECHNOLOGY

- 3-busbar, poly
- Mechanical Load max. 5.400 Pa
- Junction box encapsulated
- LID resistant
- Ammonia resistant
- PID resistant

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

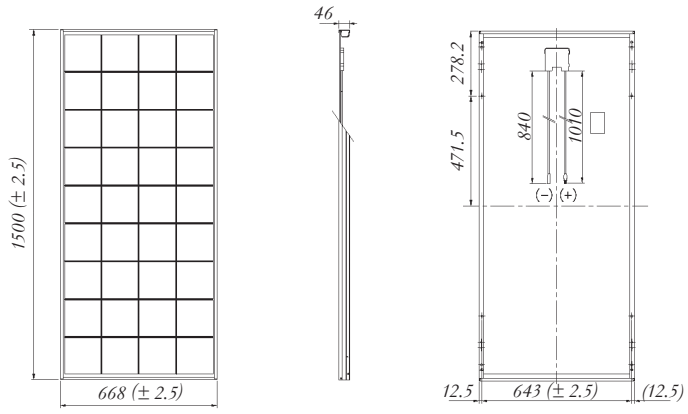
Kyocera photovoltaic modules meet the highest standards

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

TÜVRheinland CERTIFIED
IEC 61215
IEC 61730
www.tuv.com
ID 0000023299

SPECIFICATIONS

in mm



ELECTRICAL PERFORMANCE

PV Module Type		KT145-3UC
At 1000 W/m² (STC)(1)		
Maximum Power	[W]	145
Maximum System Voltage	[V]	1000
Maximum Power Voltage	[V]	18.3
Maximum Power Current	[A]	7.93
Open Circuit Voltage (V_{oc})	[V]	22.4
Short Circuit Current (I_{sc})	[A]	8.58
Efficiency	[%]	14.4
At 800 W/m² (NOCT)(2)		
Maximum Power	[W]	104
Maximum Power Voltage	[V]	16.5
Maximum Power Current	[A]	6.31
Open Circuit Voltage (V_{oc})	[V]	20.5
Short Circuit Current (I_{sc})	[A]	6.95
NOCT	[°C]	45
Power Tolerance	[%]	+5/–5
Maximum Reverse Current I_R	[A]	15
Series Fuse Rating	[A]	15
Temperature Coefficient of V_{oc}	[%/K]	–0.36
Temperature Coefficient of I_{sc}	[%/K]	0.06
Temperature Coefficient of Max. Power	[%/K]	–0.45
Reduction of Efficiency (from 1000 W/m² to 200 W/m²)	[%]	5.3

DIMENSIONS

Length	[mm]	1500 (±2.5)
Width	[mm]	668 (±2.5)
Depth / incl. Junction Box	[mm]	46
Weight	[kg]	12.5
Connection Type	[mm]	PV-03 (SMK)
Junction Box		110 × 109 × 17
Number of bypass diodes		2
IP Code		IP65

CELLS

Number per Module		36
Cell Technology		polycrystalline
Cell Shape (square)	[mm]	156 × 156
Cell Bonding		3 busbar

GENERAL INFORMATION

Performance Guarantee		10 (3) / 25 years (4)
Warranty		10 years (5)

(1) Electrical values under standard test conditions (STC): irradiation of 1000 W/m², airmass AM 1.5 and cell temperature of 25 °C
(2) 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

Your local Kyocera dealer:

KYOCERA SOLAR

KYOCERA Fineceramics GmbH

Fritz-Mueller-Strasse 27
73730 Esslingen / Germany
Tel: +49 (0)711-93 93 49 99
Fax: +49 (0)711-93 93 48 61
E-Mail: solar@kyocera.de
www.kyocerasolar.eu