

## CUTTING EDGE TECHNOLOGY

As a pioneer with four decades of experience in the development of photovoltaic systems, Kyocera drives the market as a leading provider of PV products. We demonstrate our Kaizen philosophy, or commitment to continuous improvement, by setting the industry standard in the innovation of best-in-class solar energy equipment.

## QUALITY BUILT IN

- UV-stabilized, anodized aluminum frame in black
- Supported by major mounting structure manufacturers
- Easily accessible grounding points on all four corners for fast installation

## PROVEN RELIABILITY

- Kyocera modules confirmed by the Desert Knowledge Australia Solar Centre to have the highest average output of any crystalline module
- First module manufacturer in the world to pass long-term sequential testing performed by TÜV Rheinland
- Recognized as a “top performer” across all test categories by DNV GL (formerly PV Evolution Labs), an international provider of independent expert advisory and certification services, in both the 2014 and 2016 PV Module Reliability Scorecard.
- Passed TÜV Rheinland’s Salt Mist Corrosion Test at Severity Level 6, the most intense test conditions, intended for PV modules exposed to salt-laden and dry atmospheres.

## CERTIFICATIONS

- UL1703 Certified and Registered
- UL Module Fire Performance: Class C, CEC
- EC 61215/61730, and ISO14001
- Applicable to hazardous location, UL Class 1 Div II
- IEC61701 Ed. 2 Severity 6 (Salt Mist Corrosion Test)



# 36CELL 600V

KD145SX-UFU



## MODULE CHARACTERISTICS

Cells per module:	36 (4 x 9)
Dimensions: length/width/height	59.06in/26.3in/1.81in (1500mm/668mm/46mm)
Weight:	27.6lbs (12.5kg)

## PACKAGING SPECIFICATIONS

Modules per pallet:	20
Pallets per 53' container:	54
Pallet box dimensions: length/width/height	63.19in/27.56in/49.02in (1605mm/700mm/1245mm)
Pallet box weight:	632.8lbs (287kg)



WARNING: Read the instruction manual in its entirety prior to handling, installing and operating Kyocera Solar modules.

### ELECTRICAL SPECIFICATIONS

#### Standard Test Conditions (STC)

STC=1000 W/M<sup>2</sup> irradiance, 25°C module temperature, AM 1.5 spectrum\*

#### KD 145SX-UFU

P <sub>max</sub>	145	W
V <sub>mp</sub>	17.9	V
I <sub>mp</sub>	8.11	A
V <sub>oc</sub>	22.3	V
I <sub>sc</sub>	8.78	A
P <sub>tolerance</sub>	+10/-0	%

#### Nominal Operating Cell Temperature Conditions (NOCT)

NOCT=800 W/M<sup>2</sup> irradiance, 20°C ambient temperature, AM 1.5 spectrum\*

T <sub>NOCT</sub>	45	°C
P <sub>max</sub>	104	W
V <sub>mp</sub>	16.1	V
I <sub>mp</sub>	6.46	A
V <sub>oc</sub>	20.4	V
I <sub>sc</sub>	7.11	A

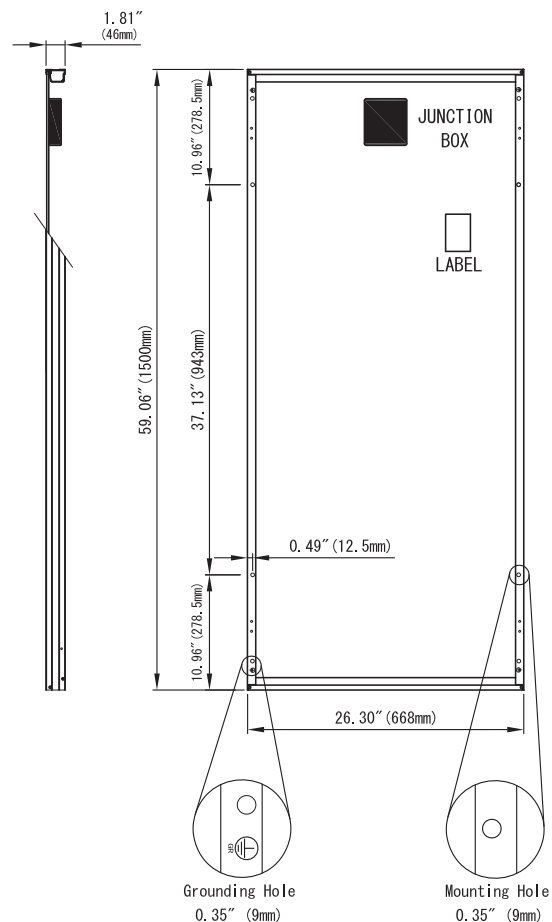
#### Temperature Coefficients

P <sub>max</sub>	-0.46	%/°C
V <sub>mp</sub>	-0.52	%/°C
I <sub>mp</sub>	0.006	%/°C
V <sub>oc</sub>	-0.36	%/°C
I <sub>sc</sub>	0.06	%/°C
Operating Temp	-40 to +90	°C

#### System Design

Series Fuse Rating	15 A
Maximum DC System Voltage (UL)	600 V
Hailstone Impact	1 in (25mm) @ 51mp (23m/s)

\*Subject to simulator measurement uncertainty of +/- 3%.  
KYOCERA reserves the right to modify these specifications without notice.



#### FRAME CROSS SECTION DIAGRAM

