



KD 140 F, SX Series

KD140SX-UFBS

CUTTING EDGE TECHNOLOGY

As a pioneer with over 35 years in the solar energy industry, Kyocera demonstrates leadership in the development of solar energy products. Kyocera's *Kaizen* Philosophy, commitment to continuous improvement, is shown by repeatedly achieving world record cell efficiencies.

QUALITY BUILT IN

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

RELIABLE

- Proven superior field performance
- Tight power tolerance
- Only module manufacturer to pass rigorous long-term testing performed by TÜV Rheinland

QUALIFICATIONS AND CERTIFICATIONS

UL Listing
QIGU.E173074



NEC 2008 Compliant, UL 1703, and ISO 14001

UL1703 Certified and Registered, UL Fire Safety Class C, Class I, Div II
Certified IEC61215 Ed 2 IEC61730 by JET



ELECTRICAL SPECIFICATIONS

Standard Test Conditions (STC)
 STC = 1000 W/M² irradiance, 25°C module temperature, AM 1.5 spectrum*

KD140SX-UFBS		
P _{mp}	140	W
V _{mp}	17.7	V
I _{mp}	7.91	A
V _{oc}	22.1	V
I _{sc}	8.68	A
P _{tolerance}	+7/-0	%

Nominal Operating Cell Temperature Conditions (NOCT)
 NOCT = 800 W/M² irradiance, 20°C ambient temperature, AM 1.5 spectrum*

T _{NOCT}	45	°C
P _{max}	101	W
V _{mp}	16.0	V
I _{mp}	6.33	A
V _{oc}	20.2	V
I _{sc}	7.03	A

Temperature Coefficients

P _{max}	-0.46	%/°C
V _{mp}	-0.52	%/°C
I _{mp}	0.0066	%/°C
V _{oc}	-0.36	%/°C
I _{sc}	0.060	%/°C

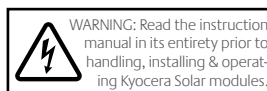
Operating Temp	-40 to +90	°C
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System Design

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

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

NEC 2008 COMPLIANT
 UL 1703 LISTED
 CERTIFIED IEC61215 ED2 IEC61730 BY JET

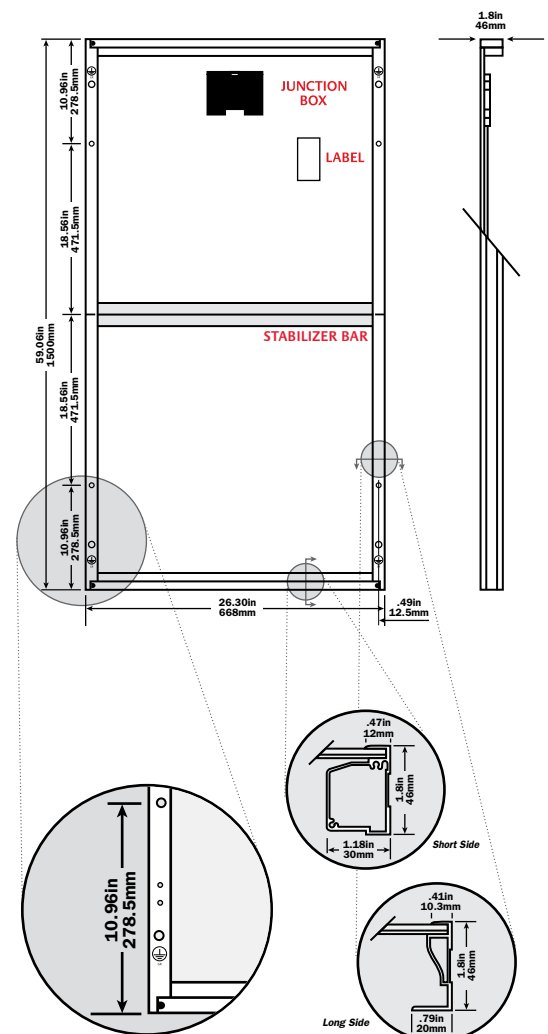


MODULE CHARACTERISTICS

Dimensions: length/width/height	59.06in/26.30in/1.8in (1500mm/668mm/46mm)
Weight:	28.4lbs (12.9kg)

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:	650lbs (295kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

Legend

- MOUNTING HOLES .35in (9mm)
- DRAINAGE HOLES
- ⊕ GROUND SYMBOL .35in (9mm)

011613

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