

KD 135 F, SX Series KD 135 SX-UFBS KD 140 SX-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

US







Registered to ISO9001-2000

NEC 2008 Compliant, UL 1703, ISO 9001, and ISO 14001 UL1703 Certified and Registered, UL Fire Safety Class C, Class I, Div II Certified IEC61215 Ed 2 IEC61730 by JET





SOLAR by KYOCERA

ELECTRICAL SPECIFICATIONS

	t Conditions (STC) V/M² irradiance, 25°C modul	e temperature, AM 1.5 spectru	'm*
	KD135SX-UFBS	KD140SX-UFBS	
P _{mp}	135	140	W
V _{mp}	17.7	17.7	V
I _{mp}	7.63	7.91	А
V _{oc}	22.1	22.1	V
l _{sc}	8.37	8.68	А
P _{tolerance}	+5/-5	+5/-5	%

Nominal Operating Cell Temperature Conditions (NOCT) NOCT = 800 W/M² irradiance, 20°C ambient temperature, AM 1.5 spectrum* 45 T_{NOCT} 45 ٥C 97 101 W \mathbf{P}_{\max} 16.0 16.0 V $V_{\rm mp}$ 6.10 6.33 l_{mp} А 20.2 20.2 V V 6.78 7.03 А \mathbf{I}_{sc}

Temperature Coefficients

P _{max}	-0.45	-0.45	%/°C
V _{mp}	-0.52	-0.52	%/°C
I _{mp}	0.0066	0.0066	%/°C
V _{oc}	-0.36	-0.36	%/°C
I _{sc}	0.060	0.060	%/°C
Operating Temp	-40 to +90	-40 to +90	°C

System Design

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

* Subject to simulator measurement uncertainty of +/- 3%.

KYOCERA reserves the right to modify these specifications without notice.

US

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







Legend

.35in (9mm) .35in (9mm)	O MOUNTING HOLES .35in (9mm)	DRAINAGE HOLES	GROUND SYMBOL .35in (9mm)
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121511

OUR VALUED PARTNER

MODULE CHARACTERISTICS

length/width/height	(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)	

