

# 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 <sub>mp</sub>	135	140	W
V <sub>mp</sub>	17.7	17.7	V
I <sub>mp</sub>	7.63	7.91	А
V <sub>oc</sub>	22.1	22.1	V
l <sub>sc</sub>	8.37	8.68	А
<b>P</b> <sub>tolerance</sub>	+5/-5	+5/-5	%

Nominal Operating Cell Temperature Conditions (NOCT) NOCT = 800 W/M<sup>2</sup> irradiance, 20°C ambient temperature, AM 1.5 spectrum\* 45 T<sub>NOCT</sub> 45 ٥C 97 101 W  $\mathbf{P}_{\max}$ 16.0 16.0 V  $V_{\rm mp}$ 6.10 6.33 l<sub>mp</sub> А 20.2 20.2 V V 6.78 7.03 А  $\mathbf{I}_{sc}$ 

#### **Temperature Coefficients**

P <sub>max</sub>	-0.45	-0.45	%/°C
V <sub>mp</sub>	-0.52	-0.52	%/°C
I <sub>mp</sub>	0.0066	0.0066	%/°C
V <sub>oc</sub>	-0.36	-0.36	%/°C
I <sub>sc</sub>	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)	

