

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







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

KD 135 P, SX Series

D135SX-UPU KD140SX-U





ELECTRICAL SPECIFICATIONS

Standard Test Conditions (STC)

	KD135SX-UPU	KD140SX-UPU	
P _{mp}	135	140	W
\mathbf{V}_{mp}	17.7	17.7	V
I _{mp}	7.63	7.91	А
V _{oc}	22.1	22.1	V
ls _c	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*			
T _{NOCT}	45	45	°C
P _{max}	97	101	W
V _{mp}	16.0	16.0	V
I _{mp}	6.10	6.33	Α
V _{oc}	20.2	20.2	V
L	6.78	7.03	А

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

Series Fuse Rating 15 A Maximum DC System Voltage (UL) 600 V

1in (25mm) @ 51mph (23m/s) Hailstone Impact

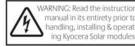
Subject to simulator measurement uncertainty of +/- 3%.
 KYOCERA reserves the right to modify these specifications without notice.

NEC 2008 COMPLIANT UL 1703 LISTED







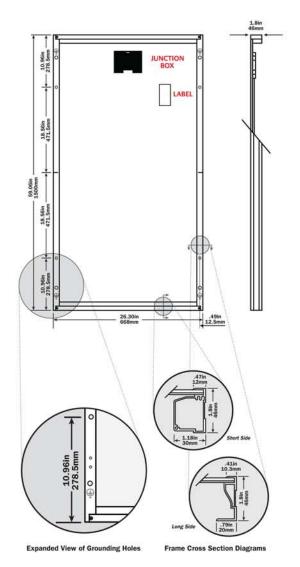


MODULE CHARACTERISTICS

Dimensions:	59.06in/26.30in/1.8in
length/width/height	(1500mm/668mm/46mm)
Weight:	27.6lbs (12.5kg)

PACKAGING SPECIFICATIONS

Modules per pallet:	20 54	
Pallets per 53' container:		
Pallet box dimensions: length/width/height	63.19in/27.56in/49.02in (1605mm/700mm/1245mm)	
Pallet box weight:	617lbs (280kg)	



Legend

041212 OUR VALUED PARTNER