KYOCERA

KD 185 P Series

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

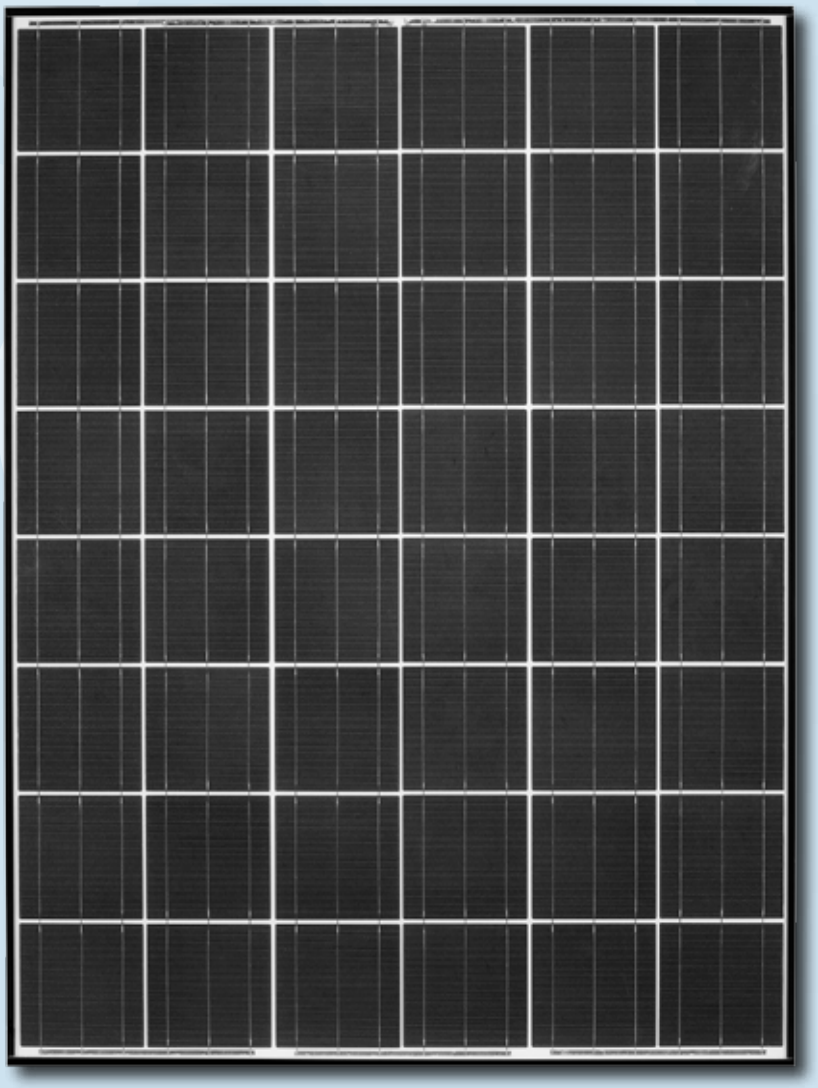
- UV stabilized, aesthetically pleasing black anodized frame
- Supported by major mounting structure manufacturers
- Easily accessible grounding points on all four corners for fast installation
- Proven junction box technology with 12 AWG PV wire to work with transformerless inverters
- Quality locking MC4 plug-in connectors to provide safe and quick connections

RELIABLE

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

WARRANTY

- Kyocera standard 20 year power output warranty and 5 year workmanship warranty applies in USA
- Extended warranties available per project requirements
- Kyocera standard 20 year power output warranty and 2 year workmanship warranty applies outside of USA
- Refer to Kyocera warranty policy for details



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, CEC, FSEC
Certified IEC61215 Ed 2 IEC61730 by JET

QUALIFIED FOR "BUY AMERICAN"
Manufactured in San Diego, California

• Available Upon Request •

ELECTRICAL SPECIFICATIONS

Standard Test Conditions (STC)

*STC = 1000 W/M² irradiance, 25°C module temperature, AM 1.5 spectrum**

KD185GX-LPU		
P_{mp}	185	W
V_{mp}	23.6	V
I_{mp}	7.84	A
V_{oc}	29.5	V
Is_c	8.58	A
$P_{tolerance}$	+5/-5	%

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}	133	W
V_{mp}	21.3	V
I_{mp}	6.27	A
V_{oc}	27.0	V
I_{sc}	6.95	A
PTC	167.1	W

Temperature Coefficients

P_{max}	-0.45	%/°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

System Design

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

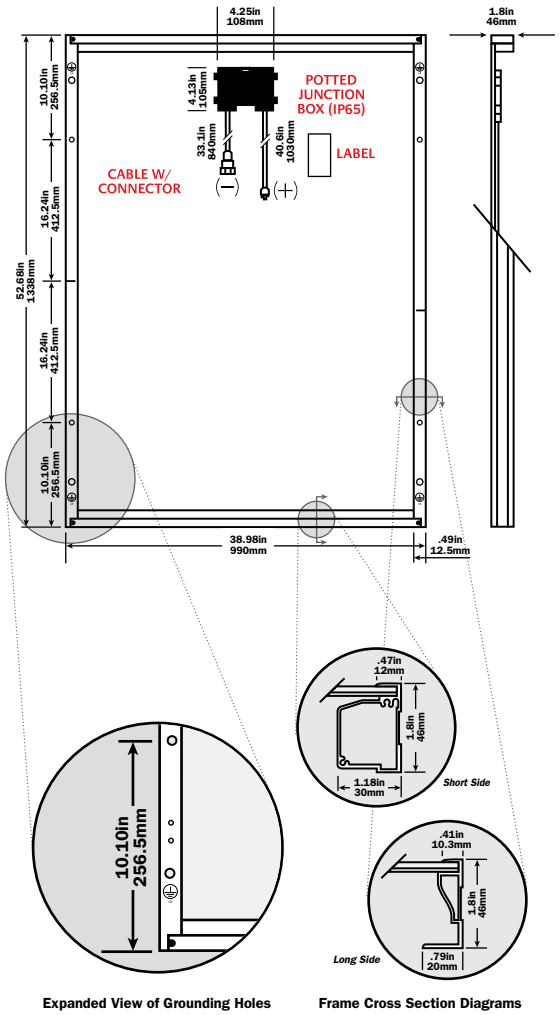
* Subject to simulator measurement uncertainty of +/- 3%.
KYOCERA reserves the right to modify these specifications without notice.

MODULE CHARACTERISTICS

Dimensions: *length/width/height*	**52.68in/38.98in/1.8in (1338mm/990mm/46mm)**
Weight:	**35.3lbs (16.0kg)**

PACKAGING SPECIFICATIONS

Modules per pallet:	**20**
Pallets per 53' container:	**36**
Pallet box dimensions: *length/width/height*	**56.69in/42.52in/49.02in (1440mm/1080mm/1245mm)**
Pallet box weight:	**798.2lbs (362kg)**



Expanded View of Grounding Holes

Frame Cross Section Diagrams

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

Registered to ISO9001-2000

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

Legend

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

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OUR VALUED PARTNER