



KD 200-60 P Series

KD230GX-LPB KD235GX-LPB KD240GX-LPB KD245GX-LPB

CUTTING EDGE TECHNOLOGY

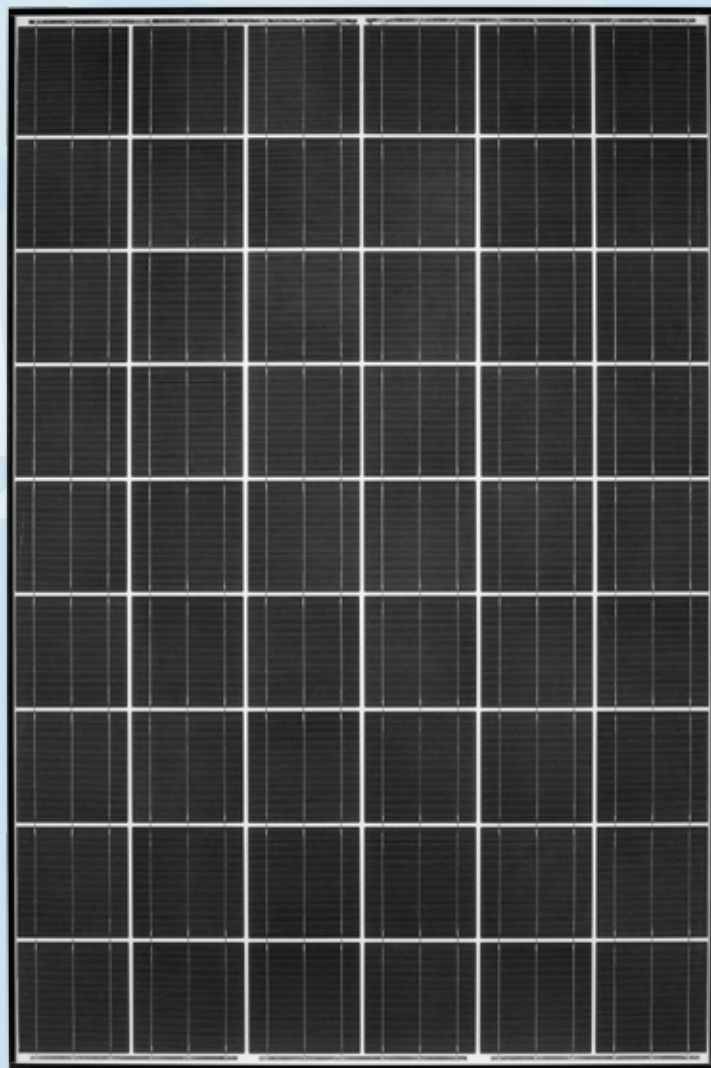
As a pioneer with over 35 years in the solar energy industry, Kyocera demonstrates leadership in the development of solar energy products. Kyocera's *Kaizen* Philosophy, commitment to continuous improvement, is shown by repeatedly achieving world record cell efficiencies.

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 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

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

ELECTRICAL SPECIFICATIONS

Standard Test Conditions (STC)

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

	KD230GX-LPB	KD235GX-LPB	KD240GX-LPB	KD245GX-LPB	
P_{mp}^2	230	235	240	245	W
V_{mp}	29.8	29.8	29.8	29.8	V
I_{mp}	7.72	7.89	8.06	8.23	A
V_{oc}	36.9	36.9	36.9	36.9	V
I_{sc}	8.36	8.55	8.59	8.91	A
P _{tolerance}	+5/-3	+5/-3	+5/-3	+5/-3	%

Nominal Operating Cell Temperature Conditions (NOCT)

NOCT = 800 W/M² irradiance, 20°C ambient temperature, AM 1.5 spectrum

T_{NOCT}	45	45	45	45	°C
P_{max}	165	169	172	176	W
V_{mp}	26.8	26.8	26.7	26.8	V
I_{mp}	6.18	6.31	6.45	6.58	A
V_{oc}	33.7	33.7	33.7	33.7	V
I_{sc}	6.77	6.92	6.95	7.21	A
PTC	208.0	212.6	217.3	219.1	W

Temperature Coefficients

P_{max}	-1.04	-1.07	-1.10	-1.12	W/°C
V_{mp}	-0.153	-0.154	-0.154	-0.155	V/°C
I_{mp}	0.000502	0.000513	0.000515	0.000535	A/°C
V_{oc}	-0.133	-0.133	-0.133	-0.133	V/°C
I_{sc}	0.00502	0.00513	0.00515	0.00535	A/°C
Operating Temp	-40 to +90	-40 to +90	-40 to +90	-40 to +90	°C

System Design

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

NEC 2008 COMPLIANT

UL 1703 LISTED

CERTIFIED IEC61215 ED2 IEC61730 BY JET

Registered to ISO9001-2000

KYOCERA reserves the right to modify these specifications without notice.

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WARNING: Read the instruction manual in its entirety before handling, installing, and operating Kyocera Solar modules.

MODULE CHARACTERISTICS

Dimensions: 65.43in/38.98in/1.8in
length/width/height
(1662mm/990mm/46mm)

Weight: 46.3lbs (21.0kg)

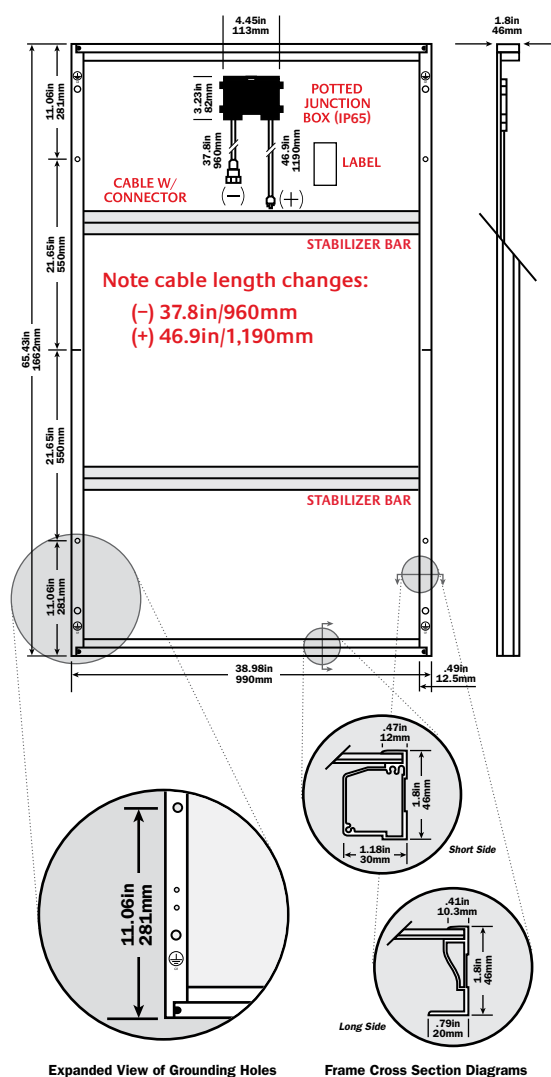
PACKAGING SPECIFICATIONS

Modules per pallet: 20

Pallets per 53' container: 36

Pallet box dimensions: 66.54in/39.76in/47.24in
length/width/height
(1690mm/1010mm/1200mm)

Pallet box weight: 1102.5lbs (500kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

Legend

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

OUR VALUED PARTNER