



# KD 200-54 P Series

KD215GX-LFU    KD220GX-LFU

## CUTTING EDGE TECHNOLOGY

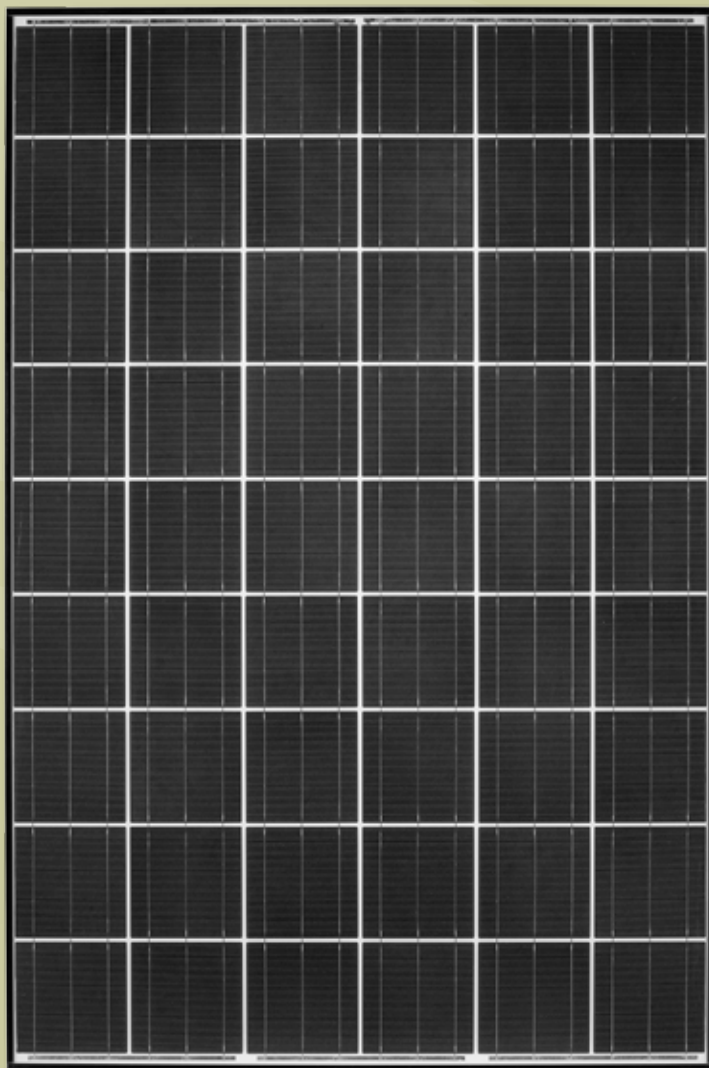
As a pioneer with over 35 years in the solar energy industry, Kyocera demonstrates leadership in the development of solar energy products. Kyocera's *Kaizen* Philosophy, commitment to continuous improvement, is shown by repeatedly achieving world record cell efficiencies.

## 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



## 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



Manufactured in San Diego, California  
**QUALIFIED FOR "BUY AMERICAN"**  
Available Upon Request

- Available Upon Request •



## ELECTRICAL SPECIFICATIONS

### Standard Test Conditions (STC)

STC = 1000 W/M<sup>2</sup> irradiance, 25°C module temperature, AM 1.5 spectrum\*

	KD215GX-LFU	KD220GX-LFU	
P <sub>mp</sub>	215	220	W
V <sub>mp</sub>	26.6	26.6	V
I <sub>mp</sub>	8.09	8.28	A
V <sub>oc</sub>	33.2	33.2	V
I <sub>sc</sub>	8.78	8.98	A
P <sub>tolerance</sub>	+5/-0	+5/-3	%

### Nominal Operating Cell Temperature Conditions (NOCT)

NOCT = 800 W/M<sup>2</sup> irradiance, 20°C ambient temperature, AM 1.5 spectrum\*

T <sub>NOCT</sub>	45	45	°C
P <sub>max</sub>	155	158	W
V <sub>mp</sub>	24.0	24.0	V
I <sub>mp</sub>	6.47	6.62	A
V <sub>oc</sub>	30.4	30.4	V
I <sub>sc</sub>	7.11	7.27	A
PTC	194.6	199.2	W

### Temperature Coefficients

P <sub>max</sub>	-0.46	-0.46	%/°C
V <sub>mp</sub>	-0.52	-0.52	%/°C
I <sub>mp</sub>	0.0065	0.0065	%/°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

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.

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



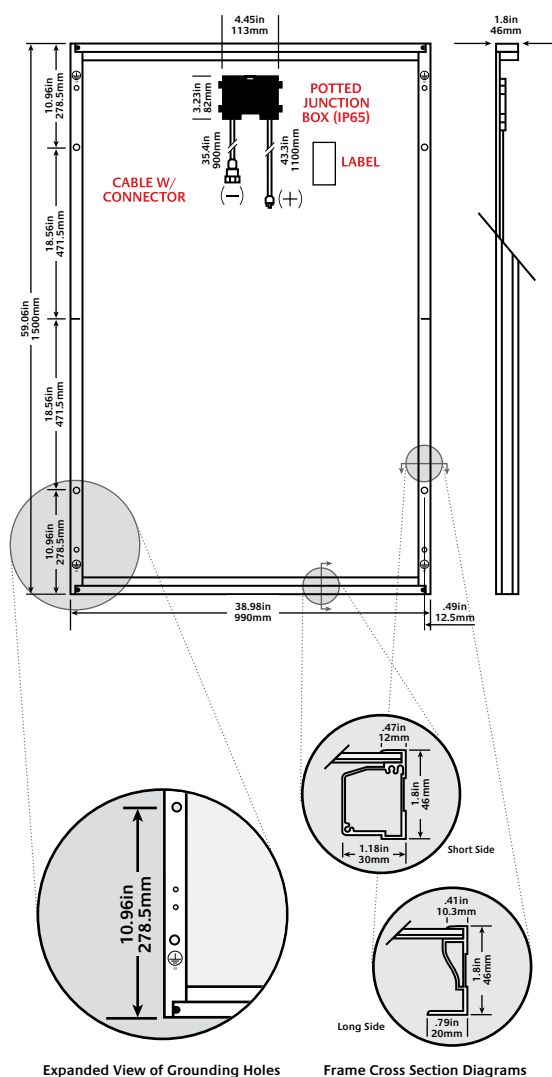
WARNING: Read the instruction manual in its entirety prior to handling, installing & operating Kyocera Solar modules.

## MODULE CHARACTERISTICS

Dimensions: length/width/height	59.06in/38.98in/1.8in (1500mm/990mm/46mm)
Weight:	39.7lbs (18.0kg)

## PACKAGING SPECIFICATIONS

Modules per pallet:	20
Pallets per 53' container:	38
Pallet box dimensions: length/width/height	64in/44in/47in (1626mm/1118mm/1194mm)
Pallet box weight:	950lbs (430.0kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

### Legend

- MOUNTING HOLES .35in (9mm)
- DRAINAGE HOLES
- ⊕ GROUND SYMBOL .28in (7mm) (with symbol ⊕ & GR)