



# KD 200-54 F Series

KD215GX-LFBS KD220GX-LFBS

## 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



Manufactured in San Diego, California  
**QUALIFIED FOR "BUY AMERICAN"**  
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-LFBS	KD220GX-LFBS	
$P_{mp}$	215	220	W
$V_{mp}$	26.6	26.6	V
$I_{mp}$	8.09	8.28	A
$V_{oc}$	33.2	33.2	V
$I_{sc}$	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\*

$T_{NOCT}$	45	45	°C
$P_{max}$	155	158	W
$V_{mp}$	24.0	24.0	V
$I_{mp}$	6.47	6.62	A
$V_{oc}$	30.4	30.4	V
$I_{sc}$	7.11	7.27	A
PTC	194.6	199.2	W

## Temperature Coefficients

$P_{max}$	-0.46	-0.46	%/°C
$V_{mp}$	-0.52	-0.52	%/°C
$I_{mp}$	0.0065	0.0065	%/°C
$V_{oc}$	-0.36	-0.36	%/°C
$I_{sc}$	0.060	0.060	%/°C

Operating Temp	-40 to +90	-40 to +90	°C
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## 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.

NEC 2008 COMPLIANT  
UL 1703 LISTED



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

## MODULE CHARACTERISTICS

Dimensions: 59.06in/38.98in/1.8in  
length/width/height (1500mm/990mm/46mm)

Weight: 41.0lbs (18.6kg)

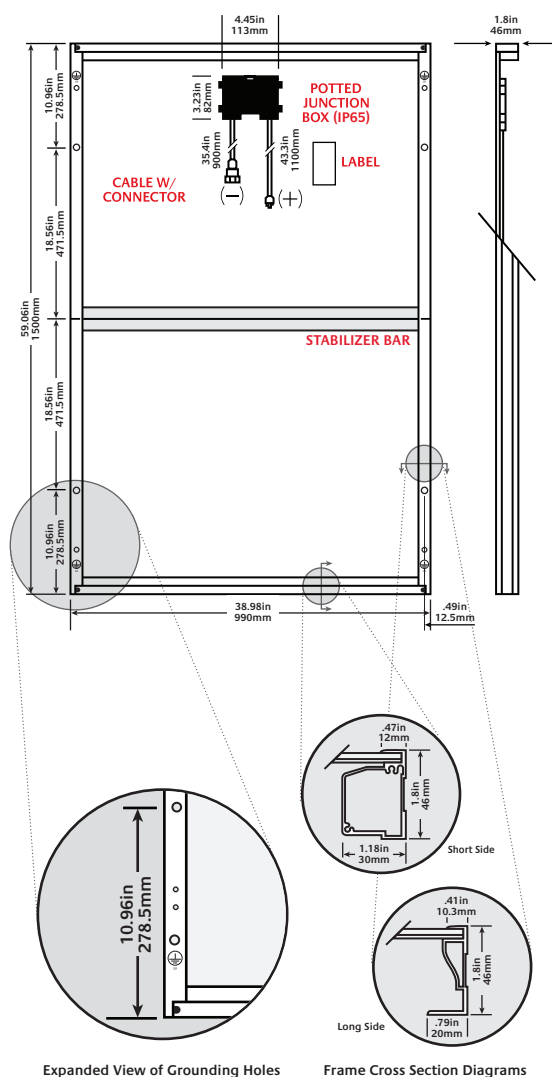
## PACKAGING SPECIFICATIONS

Modules per pallet: 20

Pallets per 53' container: 38

Pallet box dimensions: 60in/40in/45in  
length/width/height (1515mm/1005mm/1140mm)

Pallet box weight: 905lbs (410.0kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

## Legend

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