



# KD100-36 Series

KD140GX-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 plug-in connectors to provide safe and quick connections

## RELIABLE

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



## QUALIFICATIONS AND CERTIFICATIONS

UL Listing  
QIGU.E173074



NEC 2008 Compliant, UL 1703, and ISO 14001  
UL1703 Certified and Registered, UL Fire Safety Class C, CEC, FSEC  
Certified IEC61215 Ed 2 IEC61730 by JET

## ELECTRICAL SPECIFICATIONS

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

KD140GX-LFBS		
P <sub>mp</sub>	140	W
V <sub>mp</sub>	17.7	V
I <sub>mp</sub>	7.91	A
V <sub>oc</sub>	22.1	V
I <sub>sc</sub>	8.68	A
P <sub>tolerance</sub>	+7/-0	%

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	°C
P <sub>max</sub>	101	W
V <sub>mp</sub>	16.0	V
I <sub>mp</sub>	6.33	A
V <sub>oc</sub>	20.2	V
I <sub>sc</sub>	7.03	A
PTC	124.9	W

### Temperature Coefficients

P <sub>max</sub>	-0.46	%/°C
V <sub>mp</sub>	-0.52	%/°C
I <sub>mp</sub>	0.0066	%/°C
V <sub>oc</sub>	-0.36	%/°C
I <sub>sc</sub>	0.060	%/°C

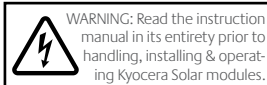
Operating Temp	-40 to +90	°C
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### System Design

Series Fuse Rating	15 A
Maximum DC System Voltage (UL)	600 V
Hailstone Impact	1 in (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  
 CERTIFIED IEC61215 ED2 IEC61730 BY JET

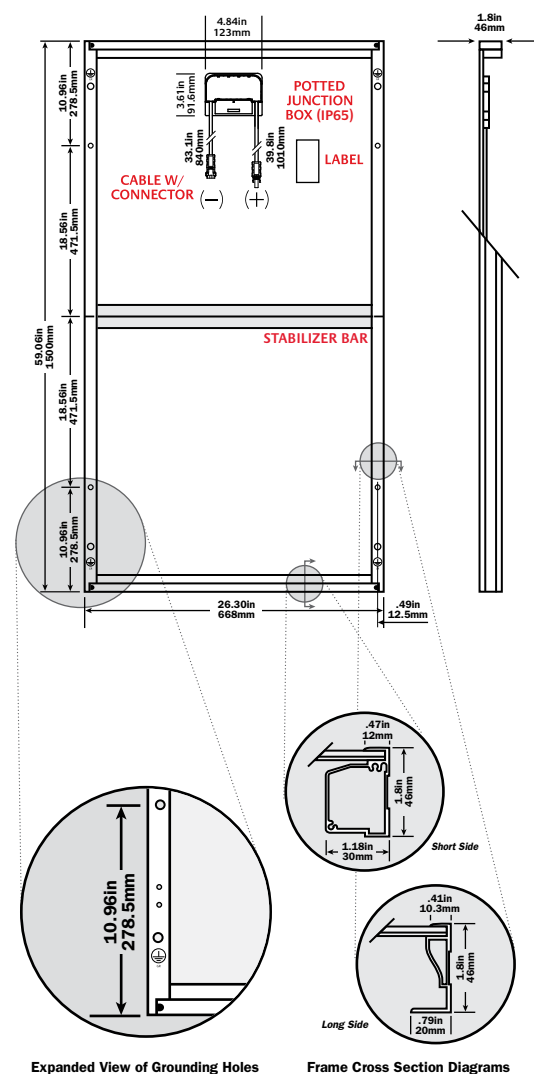


## MODULE CHARACTERISTICS

Dimensions: length/width/height	59.06in/26.30in/1.8in (1500mm/668mm/46mm)
Weight:	28.4lbs (12.9kg)

## PACKAGING SPECIFICATIONS

Modules per pallet:	20
Pallets per 53' container:	54
Pallet box dimensions: length/width/height	63.19in/27.56in/49.02in (1605mm/700mm/1245mm)
Pallet box weight:	650lbs (295kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

### Legend

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