



August 2010 Release  
Preliminary Specifications

### Cutting Edge Technology

As a pioneer with 35 years in solar, 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

- New frame technology allows for end mounting with 2400 Pa (50 psf) and traditional mounting under 5400 Pa (113 psf) to support increased snow load
- 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 PV wire to work with transformerless inverters
- Quality locking plug-in connectors to provide safe & quick connections

### New Process Improvements

- All solar cells are fabricated with a new proprietary etching and coating process which translates into a 'smoother' appearance while maintaining the same gridline and bus-bar design.
- All modules have added crossbars on the back side of the module for greater support and stability in harsh conditions, including high wind and snow load regions.

### Reliable

- Superior built-in quality
- Proven superior field performance
- Tight power tolerance

### 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

# 185 WATT

## HIGH EFFICIENCY MULTICRYSTAL PHOTOVOLTAIC MODULE



### KD185GX-LFBS

NEC 2008 Compliant  
UL 1703, ISO 9001  
and ISO 14001  
Certified and Registered  
Class C

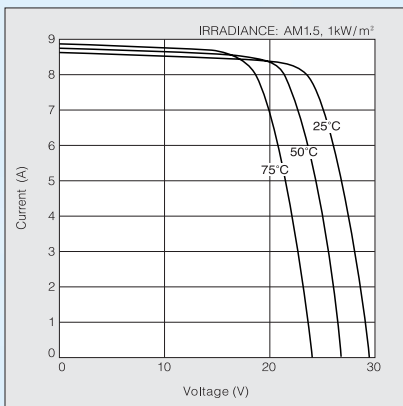


SOLAR by KYOCERA

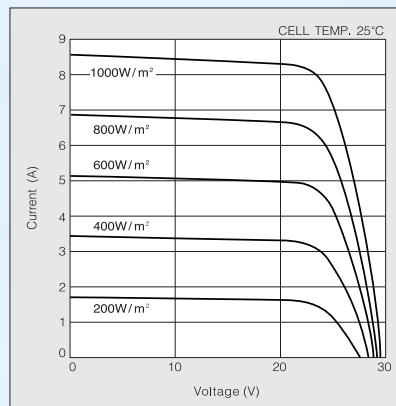
# KD185GX-LFBS

## ELECTRICAL CHARACTERISTICS

Current-Voltage characteristics of Photovoltaic Module KD185GX-LFBS at various cell temperatures



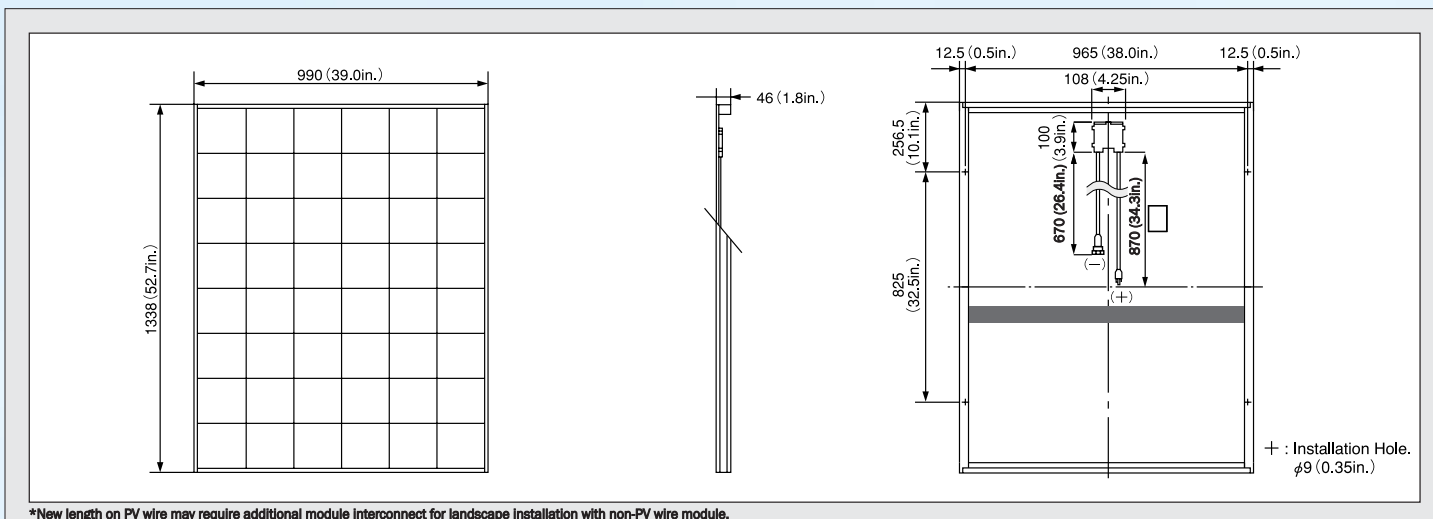
Current-Voltage characteristics of Photovoltaic Module KD185GX-LFBS at various irradiance levels



## SPECIFICATIONS

### Physical Specifications

Unit : mm (in.)



\*New length on PV wire may require additional module interconnect for landscape installation with non-PV wire module.

### Specifications

#### Electrical Performance under Standard Test Conditions (\*STC)

Maximum Power (Pmax)	185W (+5%/−5%)
Maximum Power Voltage (Vmpp)	23.6V
Maximum Power Current (Imp)	7.84A
Open Circuit Voltage (Voc)	29.5V
Short Circuit Current (Isc)	8.58A
Max System Voltage	600V
Temperature Coefficient of Voc	−1.06×10 <sup>-1</sup> V/°C
Temperature Coefficient of Isc	5.15×10 <sup>-3</sup> A/°C

\*STC : Irradiance 1000W/m<sup>2</sup>, AM1.5 spectrum, cell temperature 25°C

#### Electrical Performance at 800W/m<sup>2</sup>, \*NOCT, AM1.5

Maximum Power (Pmax)	131W
Maximum Power Voltage (Vmpp)	21.0V
Maximum Power Current (Imp)	6.27A
Open Circuit Voltage (Voc)	26.7V
Short Circuit Current (Isc)	6.96A

\*NOCT (Nominal Operating Cell Temperature) : 47.9°C

#### Cells

Number per Module	48
-------------------	----

#### Module Characteristics

Length × Width × Depth	1338mm(52.7in)×990mm(39.0in)×46mm(1.8in)
Weight	16kg(35.3lbs.)
Cable	(+1870mm(34.3in),-1670mm(26.4in))

#### Junction Box Characteristics

Length × Width × Depth	100mm(3.9in)×108mm(4.3in)×15mm(0.6in)
IP Code	IP65

#### Others

*Operating Temperature	−40°C~90°C
Maximum Fuse	15A

\*This temperature is based on cell temperature.

### ISO 9001 and ISO 14001 Certified and Registered

Kyocera reserves the right to modify these specifications without notice.

www.kyocerasolar.com

800-223-9580 toll free 800-523-2329 fax

