## NEW

## BiKu MODULE

## NEW GENERATION BIFACIAL MODULE FRONT POWER RANGE: 290W ~ 305W UP TO 30\% MORE POWER FROM THE BACK SIDE CS3K-290|295|300|305PB-AG

## MORE POWER



Up to 30\% more power from the back side


Low NMOT: $42 \pm 3{ }^{\circ} \mathrm{C}$
Low temperature coefficient (Pmax):
$-0.37 \% /{ }^{\circ} \mathrm{C}$

Better shading tolerance

MORE RELIABLE


Lower internal current,
lower hot spot temperature


Minimizes micro-cracks and snail trails


Heavy snow load up to 5400 Pa, wind load up to 2400 Pa *

Fire Class A and Type 3 / Type 13

$\square$
5BB cell
MBB cell

* Both 5BB and MBB modules will be supplied.
product warranty on materials and workmanship


## MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health \& safety
PRODUCT CERTIFICATES*
IEC 61215 / IEC 61730: VDE / CE (Expected in November, 2018) UL 1703: CSA (Expected in December, 2018)

CANADIAN SOLAR INC.is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 30 GW deployed around the world since 2001.

## ENGINEERING DRAWING (mm)



ELECTRICAL DATA | NMOT*

|  | Nominal <br> Max. <br> Power <br> (Pmax) | Opt. <br> Operating <br> Voltage <br> (Vmp) | Opt. <br> Operating <br> Current <br> (Imp) | Open <br> Circuit <br> Voltage <br> (Voc) | Short <br> Circuit <br> Current <br> (Isc) |
| :--- | :---: | :---: | :---: | :---: | :---: |
| CS3K-290PB-AG | 216 W | 29.8 V | 7.22 A | 36.5 V | 7.66 A |
| CS3K-295PB-AG | 219 W | 30.0 V | 7.30 A | 36.7 V | 7.72 A |
| CS3K-300PB-AG | 223 W | 30.2 V | 7.38 A | 36.8 V | 7.78 A |
| CS3K-305PB-AG | 227 W | 30.4 V | 7.46 A | 37.0 V | 7.85 A |

* Under Nominal Module Operating Temperature (NMOT), irradiance of $800 \mathrm{~W} / \mathrm{m} 2$, spectrum AM 1.5 , ambient temperature $20^{\circ} \mathrm{C}$, wind speed $1 \mathrm{~m} / \mathrm{s}$.

MECHANICAL DATA
 technical representatives.

TEMPERATURE CHARACTERISTICS

| Specification | Data |
| :--- | :--- |
| Temperature Coefficient (Pmax) | $-0.37 \% /{ }^{\circ} \mathrm{C}$ |
| Temperature Coefficient (Voc) | $-0.29 \% /{ }^{\circ} \mathrm{C}$ |
| Temperature Coefficient (Isc) | $0.05 \% /{ }^{\circ} \mathrm{C}$ |
| Nominal Module Operating Temperature | $42 \pm 3^{\circ} \mathrm{C}$ |

PARTNER SECTION


* This is preliminary datasheet and for reference only. The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

|  |  | Nominal Max. Power (Pmax) | Opt. Operating Voltage (Vmp) | Opt. Operating Current (Imp) | Open <br> Circuit <br> Voltage <br> (Voc) | Short Circuit Curren (Isc) | Module Efficiency |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CS3K-290 | -AG | 290 W | 32.3 V | 8.98 A | 38.9 V | 9.49 A | 17.24\% |
| Bifacial Gain** | 5\% | 305 W | 32.3 V | 9.43 A | 38.9 V | 9.96 A | 18.13\% |
|  | 10\% | 319 W | 32.3 V | 9.88 A | 38.9 V | 10.44 A | 18.96\% |
|  | 20\% | 348 W | 32.3 V | 10.78 A | 38.9 V | 11.39 A | 20.68\% |
|  | 30\% | 377 W | 32.3 V | 11.67 A | 38.9 V | 12.34 | 22.41\% |
| CS3K-295PB-AG |  | 295 W | 32.5 V | 9.08 A | 39.1 V | 9.57 A | 17.53\% |
| Bifacial Gain** | 5\% | 310 W | 32.5 V | 9.53 A | 39.1 V | 10.05 A | 18.43\% |
|  | 10\% | 325 W | 32.5 V | 9.99 A | 39.1 V | 10.53 | 19.32\% |
|  | 20\% | 354 W | 32.5 V | 10.9 A | 39.1 V | 11.48 | 21.04\% |
|  | 30\% | 384 W | 32.5 V | 11.8 A | 39.1 V | 12.44 A | 22.82\% |
| CS3K-300PB-AG |  | 300 W | 32.7 V | 9.18 A | 39.3 V | 9.65 A | 17.83\% |
| Bifacial Gain** | 5\% | 315 W | 32.7 V | 9.64 A | 39.3 V | 10.13 | 18.72\% |
|  | 10\% | 330 W | 32.7 V | 10.1 A | 39.3 V | 10.62 A | 19.61\% |
|  | 20\% | 360 W | 32.7 V | 11.02 A | 39.3 V | 11.58 A | 21.40\% |
|  | 30\% | 390 W | 32.7 V | 11.93 A | 39.3 V | 12.55 A | 23.18\% |
| CS3K-305PB-AG |  | 305 W | 32.9 V | 9.28 A | 39.5 V | 9.73 A | 18.13\% |
| Bifacial Gain** | 5\% | 320 W | 32.9 V | 9.74 A | 39.5 V | 10.22 A | 19.02\% |
|  | 10\% | 336 W | 32.9 V | 10.21 A | 39.5 V | 10.7 A | 19.97\% |
|  | 20\% | 366 W | 32.9 V | 11.14 A | 39.5 V | 11.68 A | 21.75\% |
|  | 30\% | 397 W | 32.9 V | 12.06 A | 39.5 V | 12.65 A | 23.60\% |

* Under Standard Test Conditions (STC) of irradiance of $1000 \mathrm{~W} / \mathrm{m}^{2}$, spectrum AM 1.5 and cell emperature of $25^{\circ} \mathrm{C}$
** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground


## ELECTRICAL DATA

Operating Temperature $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$
Max. System Voltage
1500 V (IEC) or 1000 V (IEC/UL)
TYPE 3 / Type 13 (UL 1703)
Module Fire Performance
or CLASS A (IEC61730)
Max. Series Fuse Rating 20 A
Application Classification Class A
Power Tolerance $\quad 0 \sim+5 \mathrm{~W}$
Power Bifaciality* 70 \%

* Power Bifaciality $=$ Pmax $_{\text {rear }} /$ Pmax $_{\text {frontt }}$ both Pmax $_{\text {rear }}$ and Pmax $_{\text {front }}$ are tested under STC, Bifaciality Tolerance: $\pm 5$ \%


## CANADIAN SOLAR INC.

545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

