

# Se CanadianSolar

### **BiKu MODULE NEW GENERATION BIFACIAL MODULE** FRONT POWER RANGE: 370W ~ 385W **UP TO 30% MORE POWER FROM THE BACK SIDE** CS3U-370|375|380|385PB-AG

### **MORE POWER**



41°C

Up to 30% more power from the back side

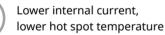
Low NMOT: 41 ± 3 °C Low temperature coefficient (Pmax): -0.37 % / °C



\* \* \*

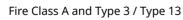
Better shading tolerance

### **MORE RELIABLE**



Minimizes micro-cracks and snail trails

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





\* Both 5BB and MBB modules will be supplied.



vears

linear power output warranty\*



\*According to the applicable Canadian Solar Limited Warranty Statement.

### **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 / MCS UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE / IEC 60068-2-68: SGS Take-e-way



\* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

**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 36 GW deployed around the world since 2001.

\* For detailed information, please refer to Installation Manual. .....

**CANADIAN SOLAR INC.** 

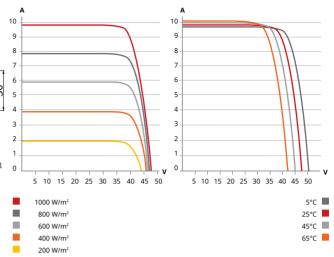
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

### **ENGINEERING DRAWING (mm)**

### **Rear View**

## **Frame Cross Section** A-A B-B 50 4-Ф5 nding hole 300 155 **Mounting Hole** 992

### CS3U-375PB-AG / I-V CURVES



### **ELECTRICAL DATA | STC\***

Max. Power (Pmax)   rating Voltage (Vmp)   Operating Current (Imp)   Circuit Voltage Current (Imp)   Circuit Voltage (Vmp)   Circuit Current (Imp)   Circuit Voltage (Vmp)     CS3U-370PB-AG   370 W   40.0 V   9.26 A   47.4 V   9.83     Bifacial Gain**   5%   389 W   40.0 V   9.72 A   47.4 V   10.3     20%   444 W   40.0 V   10.19 A   47.4 V   10.8     30%   481 W   40.0 V   12.04 A   47.4 V   12.7     CS3U-375PB-AG   375 W   40.2 V   9.34 A   47.6 V   10.4     Bifacial Gain**   10%   413 W   40.2 V   9.81 A   47.6 V   10.4     20%   450 W   40.2 V   10.27 A   47.6 V   10.4     30%   488 W   40.2 V   12.14 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   10.36 A   47.8 V   10.4     Bifacial Gain**   10%   418 W   40.4 V   11.3 A   47.8 V   10.9     20%   45								
Bifacial Gain**   5%   389 W   40.0 V   9.72 A   47.4 V   10.3     Bifacial Gain**   10%   407 W   40.0 V   10.19 A   47.4 V   10.8     20%   444 W   40.0 V   11.11 A   47.4 V   11.8     30%   481 W   40.0 V   12.04 A   47.4 V   12.7     CS3U-375PB-AG   375 W   40.2 V   9.34 A   47.6 V   9.91     Bifacial Gain**   5%   394 W   40.2 V   9.81 A   47.6 V   10.4     20%   450 W   40.2 V   9.81 A   47.6 V   10.4     30%   488 W   40.2 V   11.21 A   47.6 V   10.4     30%   488 W   40.2 V   12.14 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   9.89 A   47.8 V   10.4     Bifacial Gain**   10%   418 W   40.4 V   11.3 A   47.8 V   10.9     20%   456 W   40.4 V   12.25 A   47.8 V   10.9			Max. Power	rating Voltage	Operating Current	Circuit Voltage	Short Circuit Current (Isc)	Module Efficiency
Bifacial Gain**   10%   407 W   40.0 V   10.19 A   47.4 V   10.8     20%   444 W   40.0 V   11.11 A   47.4 V   11.8     30%   481 W   40.0 V   12.04 A   47.4 V   12.7     CS3U-375PB-AG   375 W   40.2 V   9.34 A   47.6 V   9.91     Bifacial Gain**   5%   394 W   40.2 V   9.81 A   47.6 V   10.4     20%   450 W   40.2 V   9.81 A   47.6 V   10.4     20%   450 W   40.2 V   10.27 A   47.6 V   10.5     20%   450 W   40.2 V   11.21 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.99     5%   399 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   10.9     20%   456 W   40.6 V   9.5 A   48 V   10.0     20%   456 W   40.6 V </td <td colspan="2">CS3U-370PB-AG</td> <td>370 W</td> <td>40.0 V</td> <td>9.26 A</td> <td>47.4 V</td> <td>9.83 A</td> <td>18.45%</td>	CS3U-370PB-AG		370 W	40.0 V	9.26 A	47.4 V	9.83 A	18.45%
Gain** 20% 444 W 40.0 V 11.11 A 47.4 V 11.8   30% 481 W 40.0 V 12.04 A 47.4 V 12.7   CS3U-375PB-AG 375 W 40.2 V 9.34 A 47.6 V 9.91   Bifacial Gain** 5% 394 W 40.2 V 9.81 A 47.6 V 10.4   20% 450 W 40.2 V 9.81 A 47.6 V 10.4   20% 450 W 40.2 V 10.27 A 47.6 V 10.5   20% 450 W 40.2 V 11.21 A 47.6 V 11.8   30% 488 W 40.2 V 12.14 A 47.6 V 12.8   CS3U-380PB-AG 380 W 40.4 V 9.42 A 47.8 V 9.99   5% 399 W 40.4 V 10.36 A 47.8 V 10.9   30% 494 W 40.4 V 11.3 A 47.8 V 11.9   30% 494 W 40.6 V 9.5 A 48 V 10.0   5% 385 W 40.6 V 9.98 A 48 V 10.5   Bifacial Gain** 5% 404 W		5%	389 W	40.0 V	9.72 A	47.4 V	10.32 A	19.39%
30% 481 W 40.0 V 12.04 A 47.4 V 12.7   CS3U-375PB-AG 375 W 40.2 V 9.34 A 47.6 V 9.91   Bifacial Gain** 5% 394 W 40.2 V 9.81 A 47.6 V 10.4   20% 450 W 40.2 V 9.81 A 47.6 V 10.4   20% 450 W 40.2 V 10.27 A 47.6 V 10.5   20% 450 W 40.2 V 11.21 A 47.6 V 11.8   30% 488 W 40.2 V 12.14 A 47.6 V 12.8   CS3U-380PB-AG 380 W 40.4 V 9.42 A 47.8 V 9.99   5% 399 W 40.4 V 9.89 A 47.8 V 10.9   20% 456 W 40.4 V 10.36 A 47.8 V 10.9   20% 456 W 40.4 V 11.3 A 47.8 V 12.9   CS3U-385PB-AG 385 W 40.6 V 9.5 A 48 V 10.0   5% 404 W 40.6 V 9.98 A 48 V 10.5   Bifacial Gain** 5% 40.6 V 9		10%	407 W	40.0 V	10.19 A	47.4 V	10.81 A	20.29%
CS3U-375PB-AG   375 W   40.2 V   9.34 A   47.6 V   9.91     Bifacial Gain**   5%   394 W   40.2 V   9.81 A   47.6 V   10.4     Bifacial Gain**   10%   413 W   40.2 V   10.27 A   47.6 V   10.4     20%   450 W   40.2 V   10.27 A   47.6 V   10.5     20%   450 W   40.2 V   11.21 A   47.6 V   11.8     30%   488 W   40.2 V   12.14 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.99     5%   399 W   40.4 V   9.89 A   47.8 V   10.9     20%   456 W   40.4 V   10.36 A   47.8 V   10.9     30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.0     20%   462 W   4		20%	444 W	40.0 V	11.11 A	47.4 V	11.80 A	22.14%
5%   394 W   40.2 V   9.81 A   47.6 V   10.4     Bifacial Gain**   10%   413 W   40.2 V   10.27 A   47.6 V   10.5     20%   450 W   40.2 V   11.21 A   47.6 V   10.5     20%   450 W   40.2 V   11.21 A   47.6 V   11.5     30%   488 W   40.2 V   12.14 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.95     5%   399 W   40.4 V   9.89 A   47.8 V   10.4     Bifacial Gain**   10%   418 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   10.9     30%   494 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   5%   404 W   40.6 V   10.45 A   48 V   11.0     20%   462 W		30%	481 W	40.0 V	12.04 A	47.4 V	12.78 A	23.98%
Bifacial Gain**   10%   413 W   40.2 V   10.27 A   47.6 V   10.5 10.5     20%   450 W   40.2 V   11.21 A   47.6 V   11.8 30%   488 W   40.2 V   11.21 A   47.6 V   11.8 30%   30%   488 W   40.2 V   12.14 A   47.6 V   12.8 7.6 V   12.8 9.9 W     CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.9 W     Bifacial Gain**   5%   399 W   40.4 V   9.89 A   47.8 V   10.9 20%   456 W   40.4 V   10.36 A   47.8 V   10.9 20%   10.9 20%   456 W   40.4 V   12.25 A   47.8 V   10.9 20%   12.25 A   47.8 V   10.9 20%   10.9 20%   10.0 20%   10.0 20	CS3U-375PB-AG		375 W	40.2 V	9.34 A	47.6 V	9.91 A	18.70%
Gain**   20%   450 W   40.2 V   11.21 A   47.6 V   11.8     30%   488 W   40.2 V   12.14 A   47.6 V   12.8     CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.99     5%   399 W   40.4 V   9.89 A   47.8 V   10.4     Bifacial Gain**   10%   418 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   10.9     20%   456 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   10%   424 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (		5%	394 W	40.2 V	9.81 A	47.6 V	10.41 A	19.64%
30% 488 W 40.2 V 12.14 A 47.6 V 12.8   CS3U-380PB-AG 380 W 40.4 V 9.42 A 47.8 V 9.99   5% 399 W 40.4 V 9.89 A 47.8 V 10.4   Bifacial Gain** 10% 418 W 40.4 V 9.89 A 47.8 V 10.9   20% 456 W 40.4 V 10.36 A 47.8 V 10.9   30% 494 W 40.4 V 12.25 A 47.8 V 12.9   CS3U-385PB-AG 385 W 40.6 V 9.5 A 48 V 10.0   Bifacial Gain** 5% 404 W 40.6 V 9.98 A 48 V 10.5   30% 424 W 40.6 V 10.45 A 48 V 10.0   20% 462 W 40.6 V 11.4 A 48 V 12.0   30% 501 W 40.6 V 12.35 A 48 V 13.0   * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A	Bifacial	10%	413 W	40.2 V	10.27 A	47.6 V	10.9 A	20.59%
CS3U-380PB-AG   380 W   40.4 V   9.42 A   47.8 V   9.99     5%   399 W   40.4 V   9.89 A   47.8 V   10.4     Bifacial Gain**   10%   418 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   10.9     30%   494 W   40.4 V   11.3 A   47.8 V   11.9     30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   10%   424 W   40.6 V   10.45 A   48 V   11.0     20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A   40.6 V   12.35 A   48 V   13.0	Gain**	20%	450 W	40.2 V	11.21 A	47.6 V	11.89 A	22.43%
Bifacial Gain**   5%   399 W   40.4 V   9.89 A   47.8 V   10.4     10%   418 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   11.9     30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   10%   424 W   40.6 V   10.45 A   48 V   11.0     20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A		30%	488 W	40.2 V	12.14 A	47.6 V	12.88 A	24.33%
Bifacial Gain**   10%   418 W   40.4 V   10.36 A   47.8 V   10.9     20%   456 W   40.4 V   11.3 A   47.8 V   11.9     30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     Bifacial Gain**   5%   404 W   40.6 V   9.98 A   48 V   10.0     20%   452 W   40.6 V   10.45 A   48 V   10.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A	CS3U-380PB-AG		380 W	40.4 V	9.42 A	47.8 V	9.99 A	18.94%
Gain**   20%   456 W   40.4 V   11.3 A   47.8 V   11.9     30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   10%   424 W   40.6 V   10.45 A   48 V   11.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A		5%	399 W	40.4 V	9.89 A	47.8 V	10.49 A	19.89%
30%   494 W   40.4 V   12.25 A   47.8 V   12.9     CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     Bifacial Gain**   5%   404 W   40.6 V   9.98 A   48 V   10.5     With the second	Bifacial	10%	418 W	40.4 V	10.36 A	47.8 V	10.99 A	20.84%
CS3U-385PB-AG   385 W   40.6 V   9.5 A   48 V   10.0     Bifacial Gain**   5%   404 W   40.6 V   9.98 A   48 V   10.5     10%   424 W   40.6 V   10.45 A   48 V   11.0     20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A	Gain**	20%	456 W	40.4 V	11.3 A	47.8 V	11.99 A	22.73%
5%   404 W   40.6 V   9.98 A   48 V   10.5     Bifacial Gain**   10%   424 W   40.6 V   10.45 A   48 V   11.0     20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A		30%	494 W	40.4 V	12.25 A	47.8 V	12.99 A	24.63%
Bifacial Gain**   10%   424 W   40.6 V   10.45 A   48 V   11.0     20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A	CS3U-385PB-AG		385 W	40.6 V	9.5 A	48 V	10.07 A	19.19%
Gain**   20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A		5%	404 W	40.6 V	9.98 A	48 V	10.57 A	20.14%
Gain**   20%   462 W   40.6 V   11.4 A   48 V   12.0     30%   501 W   40.6 V   12.35 A   48 V   13.0     * Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum A		10%	424 W	40.6 V	10.45 A	48 V	11.08 A	21.14%
* Under Standard Test Conditions (STC) of irradiance of 1000 W/m <sup>2</sup> , spectrum A		20%	462 W	40.6 V	11.4 A	48 V	12.08 A	23.03%
		30%	501 W	40.6 V	12.35 A	48 V	13.09 A	24.98%
	5 and cell							

temperature of 25°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°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Madula Fire Darfarmana	TYPE 3 / Type 13 (UL 1703)
Module Fire Performance	or CLASS A (IEC61730)
Max. Series Fuse Rating	25 A
Application Classification	Class A
Power Tolerance	0 ~ + 5 W
Power Bifaciality*	70 %
* Power Bifaciality = Pmax <sub>rear</sub> / Pma	ax <sub>front</sub> , both Pmax <sub>rear</sub> and Pmax <sub>front</sub> are tested under STC, Bifacia-

lity Tolerance: ± 5 %

\* 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.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

### **ELECTRICAL DATA | NMOT\***

	Nominal		Opt.	Open	Short
		Operating	Operating	Circuit	Circuit
	Power	Voltage	Ċurrent		
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
CS3U-370PB-AG	276 W	37.3 V	7.40 A	44.6 V	7.93 A
CS3U-375PB-AG	280 W	37.5 V	7.46 A	44.8 V	7.99 A
CS3U-380PB-AG	284 W	37.7 V	7.53 A	45.0 V	8.06 A
CS3U-385PB-AG	287 W	37.9 V	7.59 A	45.1 V	8.12 A

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2.</sup> spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

### **MECHANICAL DATA**

Specification	Data
Cell Type	Poly-crystalline
Cell Arrangement	144 [2X (12 X6) ]
Dimensions	2022 × 992 × 30 mm (79.6 × 39.1 × 1.18 in)
Weight	25.7 kg (56.7 lbs)
Front / Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 diodes
Cable	4.0 mm² (IEC), 12 AWG (UL)
Cable Length (Inclu- ding Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-); landscape: 1400 mm (55.1 in); leap-frog connection: 1670 mm (65.7 in)*
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	35 pieces
Per Container (40' HQ)	770 pieces or 595 pieces (only for US and

<sup>()</sup> Ca<u>nada)</u> \* For detailed information, please contact your local Canadian Solar sales and technical representatives.

### **TEMPERATURE CHARACTERISTICS**

Specification	Data
Temperature Coefficient (Pmax)	-0.37 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

### **PARTNER SECTION**

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