NEW

CanadianSolar

BiKu MODULE

NEW GENERATION BIFACIAL MODULE

FRONT POWER RANGE: 305W ~ 320W

UP TO 30% MORE POWER FROM THE BACK SIDE

CS3K-305|310|315|320MB-AG

5BB cell

MBB cell

* Both 5BB and MBB modules will be supplied.

MORE POWER

EXTRA POWER — Up to 30% more power from the back side

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

30 years **power output warranty**

10 years **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 / MCS
IEC61701 ED2: VDE / IEC62716: VDE / IEC60068-2-68: SGS
UL 1703: CSA
Take-e-way

* We can provide this product with special BOM specifically certified with salt mist, ammonia and sand blowing tests. Please talk to our local technical sales representatives to get your customized solutions.

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.

* For detailed information, please refer to Installation Manual.

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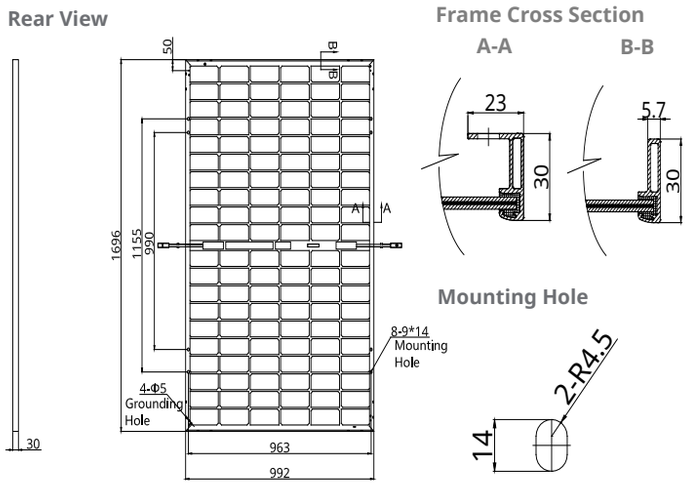
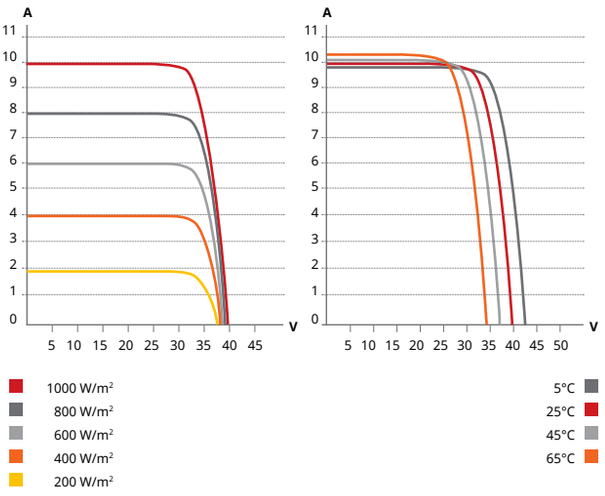
ENGINEERING DRAWING (mm)



CS3K-305MB-AG / I-V CURVES



ELECTRICAL DATA | STC*

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS3K-305MB-AG		305 W	32.7 V	9.33 A	39.5 V	9.9 A	18.13%
Bifacial Gain**	5%	320 W	32.7 V	9.8 A	39.5 V	10.4 A	19.02%
	10%	336 W	32.7 V	10.26 A	39.5 V	10.89 A	19.97%
	20%	366 W	32.7 V	11.2 A	39.5 V	11.88 A	21.75%
	30%	397 W	32.7 V	12.13 A	39.5 V	12.87 A	23.60%
CS3K-310MB-AG		310 W	32.9 V	9.43 A	39.7 V	9.98 A	18.43%
Bifacial Gain**	5%	326 W	32.9 V	9.9 A	39.7 V	10.48 A	19.38%
	10%	341 W	32.9 V	10.37 A	39.7 V	10.98 A	20.27%
	20%	372 W	32.9 V	11.32 A	39.7 V	11.98 A	22.11%
	30%	403 W	32.9 V	12.26 A	39.7 V	12.97 A	23.95%
CS3K-315MB-AG		315 W	33.1 V	9.52 A	39.9 V	10.06 A	18.72%
Bifacial Gain**	5%	331 W	33.1 V	10 A	39.9 V	10.56 A	19.67%
	10%	347 W	33.1 V	10.47 A	39.9 V	11.07 A	20.62%
	20%	378 W	33.1 V	11.42 A	39.9 V	12.07 A	22.47%
	30%	410 W	33.1 V	12.38 A	39.9 V	13.08 A	24.37%
CS3K-320MB-AG		320 W	33.3 V	9.61 A	40.1 V	10.14 A	19.02%
Bifacial Gain**	5%	336 W	33.3 V	10.09 A	40.1 V	10.65 A	19.97%
	10%	352 W	33.3 V	10.57 A	40.1 V	11.15 A	20.92%
	20%	384 W	33.3 V	11.53 A	40.1 V	12.17 A	22.82%
	30%	416 W	33.3 V	12.49 A	40.1 V	13.18 A	24.73%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 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) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 3 / Type 13 (UL 1703) or CLASS A (IEC61730)
Max. Series Fuse Rating	20 A
Application Classification	Class A
Power Tolerance	0 ~ + 5 W
Power Bifaciality*	73 %

* Power Bifaciality = $Pmax_{rear}$ / $Pmax_{front}$, both $Pmax_{rear}$ and $Pmax_{front}$ are tested under STC, Bifaciality Tolerance: ± 5 %

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS3K-305MB-AG	228 W	30.3 V	7.50 A	37.1 V	7.98 A
CS3K-310MB-AG	231 W	30.5 V	7.58 A	37.3 V	8.05 A
CS3K-315MB-AG	235 W	30.7 V	7.65 A	37.5 V	8.11 A
CS3K-320MB-AG	239 W	30.9 V	7.73 A	37.7 V	8.18 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m2, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	120 [2 x (10 x 6)]
Dimensions	1696 × 992 × 30 mm (66.8 × 39.1 × 1.18 in)
Weight	22.1 kg (48.7 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 (Including Connector)	Portrait: 400 mm (15.7 in) (+) / 280 mm (11.0 in) (-), landscape: 1250 mm (49.2 in)*
Connector	T4 series
Per Pallet	35 pieces
Per Container (40' HQ)	910 pieces

* 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

* 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.

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