

BiHiKu

HIGH POWER BIFACIAL POLY PERC MODULE
420 W ~ 440 W

UP TO 30% MORE POWER FROM THE BACK SIDE CS3W-420|425|430|435|440PB-AG

MORE POWER



Up to 30% more power from the back side



24 % higher front side power than conventional modules



Low NMOT: 41 ± 3 °C Low temperature coefficient (Pmax): -0.36 % / °C



Better shading tolerance

MORE RELIABLE



Lower internal current, lower hot spot temperature



Minimizes micro-crack impacts



Heavy snow load up to 5400 Pa, wind load up to 3600 Pa *

FRONT



Enhanced Product Warranty on Materials and Workmanship*



Linear Power Performance Warranty*

1st year power degradation no more than 2% Subsequent annual power degradation no more than 0.45%

*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 ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / MCS / INMETRO CEC listed (US California) / FSEC (US Florida) UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 Take-e-way











* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates available for your product and applicable in the regions in which the products will be used.

CSI Solar Co., Ltd. is committed to providing high quality solar products, solar system solutions and services to customers around the world. Canadian Solar was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey, and is a leading PV project developer and manufacturer of solar modules, with over 50 GW deployed around the world since 2001.

^{*} For detailed information, please refer to Installation Manual.

ENGINEERING DRAWING (mm)

Rear View Frame Cross Section A-A **Mounting Hole**

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
CS3W-420PB-AG		420 W	39.5 V	10.64 A	48.0 V	11.26 A	18.8%
	5%	441 W	39.5 V	11.17 A	48.0 V	11.82 A	19.7%
Bifacial	10%	462 W	39.5 V	11.70 A	48.0 V	12.39 A	20.7%
Gain**	20%	504 W	39.5 V	12.77 A	48.0 V	13.51 A	22.6%
	30%	546 W	39.5 V	13.83 A	48.0 V	14.64 A	24.4%
CS3W-425PB-AG		425 W	39.7 V	10.71 A	48.2 V	11.29 A	19.0%
	5%	446 W	39.7 V	11.25 A	48.2 V	11.85 A	20.0%
Bifacial	10%	468 W	39.7 V	11.79 A	48.2 V	12.42 A	20.9%
Gain**	20%	510 W	39.7 V	12.85 A	48.2 V	13.55 A	22.8%
	30%	553 W	39.7 V	13.93 A	48.2 V	14.68 A	24.8%
CS3W-430	PB-AG	430 W	39.9 V	10.78 A	48.4 V	11.32 A	19.2%
	5%	452 W	39.9 V	11.33 A	48.4 V	11.89 A	20.2%
Bifacial	10%	473 W	39.9 V	11.86 A	48.4 V	12.45 A	21.2%
Gain**	20%	516 W	39.9 V	12.94 A	48.4 V	13.58 A	23.1%
	30%	559 W	39.9 V	14.01 A	48.4 V	14.72 A	25.0%
CS3W-435	PB-AG	435 W	40.1 V	10.85 A	48.6 V	11.35 A	19.5%
C3344-433F	5%	457 W	40.1 V	11.40 A	48.6 V	11.92 A	20.5%
Bifacial	10%	479 W	40.1 V	11.95 A	48.6 V	12.49 A	21.4%
Gain**	20%	522 W	40.1 V	13.02 A	48.6 V	13.62 A	23.4%
	30%	566 W	40.1 V	14.12 A	48.6 V	14.76 A	25.3%
CS3W-440	PB-AG	440 W	40.3 V	10.92 A	48.7 V	11.4 A	19.7%
	5%	462 W	40.3 V	11.47 A	48.7 V	11.97 A	20.7%
Bifacial	10%	484 W	40.3 V	12.01 A	48.7 V	12.54 A	21.7%
Gain**	20%	528 W	40.3 V	13.1 A	48.7 V	13.68 A	23.6%
	30%	572 W	40.3 V	14.2 A	48.7 V	14.82 A	25.6%

^{*} Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

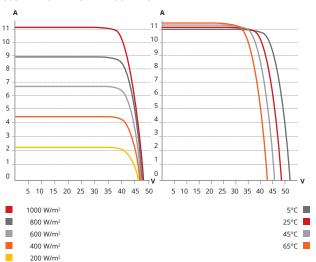
ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C										
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)										
Module Fire Performance	e TYPE 29 (UL 61730)										
	or CLASS C (IEC61730)										
Max. Series Fuse Rating	25 A										
Application Classification	Class A										
Power Tolerance	0 ~ + 10 W										
Power Bifaciality*	70 %										
* Dower Difaciality - Dmay / Dn	hoth Dray and Dray are tested under STC Pifacia										

lity Tolerance: ± 5 %

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.

CS3W-420PB-AG / I-V CURVES



ELECTRICAL DATA | NMOT*

	Nominal	Opt.	Opt.	Open	Short								
	Max. Power (Pmax)	Operating Voltage (Vmp)	Operating Current (Imp)		Circuit Current (Isc)								
CS3W-420PB-AG	314 W	36.9 V	8.51 A	45.2 V	9.08 A								
CS3W-425PB-AG	318 W	37.1 V	8.57 A	45.4 V	9.10 A								
CS3W-430PB-AG	321 W	37.3 V	8.62 A	45.6 V	9.13 A								
CS3W-435PB-AG	325 W	37.5 V	8.68 A	45.8 V	9.15 A								
CS3W-440PB-AG	329 W	37.7 V	8.74 A	45.9 V	9.19 A								

 $[\]star$ Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m 2 . spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Specification	Data								
Cell Type	Poly-crystalline								
Cell Arrangement	144 [2 X (12 X 6)]								
Dimensions	2132 × 1048 × 30 mm (83.9 × 41.3 × 1.2 in)								
Weight	28.4 kg (62.6 lbs)								
Front / Back Glass	2.0 mm heat strengthened glass								
Frame	Anodized aluminium alloy								
J-Box	IP68, 3 diodes								
Cable	4.0 mm ² (IEC), 12 AWG (UL)								
Cable Length (Including Connector)	400 mm (15.7 in) (+) / 280 mm (11.0 in) (-) or customized length*								
Connector	T4 series or H4 UTX or MC4-EVO2								
Per Pallet	33 pieces								
Per Container (40' HQ) 660 pieces or 561 pieces (only for US)									

^{**} Bifacial Gain: The additional gain from the back side compared to the power of the front side at * For detailed information, please contact your local Canadian Solar sales and techni-

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.36 % / °C
Temperature Coefficient (Voc)	-0.28 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

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the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo

^{*} 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. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time