

BiHiKu

HIGH POWER BIFACIAL POLY PERC MODULE

420 W ~ 435 W

UP TO 30% MORE POWER FROM THE BACK SIDE

CS3W-420|425|430|435PB-AG (IEC1500 V)



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

FRONT

BACK



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.

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 *

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 / CE / MCS / INMETRO

CEC listed (US California) / FSEC (US Florida)

UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68

Take-e-way

Canadian Solar recycles panels at the end of life cycle



* 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. 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 46 GW deployed around the world since 2001.

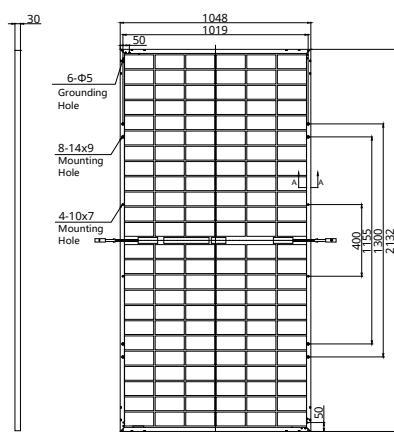
* For detailed information, please refer to Installation Manual.

CANADIAN SOLAR INC.

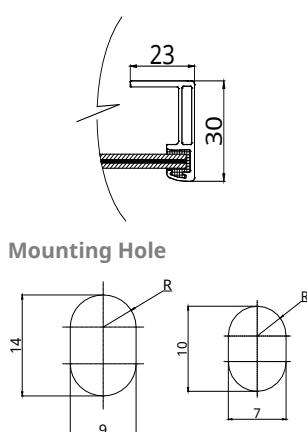
Canadian Solar MSS (Australia) Pty Ltd., 44 Stephenson St, Cremorne VIC 3121, Australia
sales.au@csisolar.com, www.csisolar.com.au

ENGINEERING DRAWING (mm)

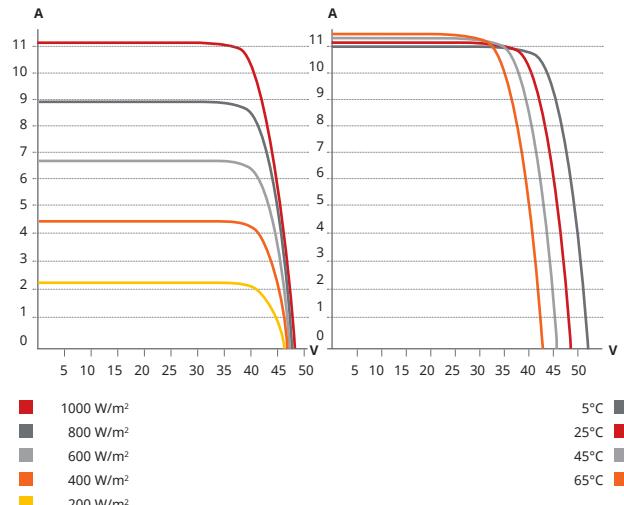
Rear View



Frame Cross Section A-A



CS3W-420PB-AG / I-V CURVES



ELECTRICAL DATA | STC*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vm)	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 Gain**	10%	462 W	39.5 V	11.70 A	48.0 V	12.39 A	20.7%
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 Gain**	10%	468 W	39.7 V	11.79 A	48.2 V	12.42 A	20.9%
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-430PB-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 Gain**	10%	473 W	39.9 V	11.86 A	48.4 V	12.45 A	21.2%
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-435PB-AG	435 W	40.1 V	10.85 A	48.6 V	11.35 A	19.5%	
5%	457 W	40.1 V	11.40 A	48.6 V	11.92 A	20.5%	
Bifacial Gain**	10%	479 W	40.1 V	11.95 A	48.6 V	12.49 A	21.4%
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%	

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. Measurement uncertainty: $\pm 3\%$ (Pmax).

** 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 (UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	25 A
Application Classification	Class A
Power Tolerance	0 ~ + 5 W
Power Bifaciality*	70 %

* Power Bifaciality = $P_{max_rear} / P_{max_front}$, both P_{max_rear} and P_{max_front} are tested under STC, Bifaciality Tolerance: $\pm 5\%$

* 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.

CANADIAN SOLAR INC.

Canadian Solar MSS (Australia) Pty Ltd., 44 Stephenson St, Cremorne VIC 3121, Australia

sales.au@csisolar.com, www.csisolar.com.au

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

