

# **BiHiKu**

HIGH POWER BIFACIAL POLY PERC MODULE 400 W ~ 415 W **UP TO 30% MORE POWER FROM THE BACK SIDE** CS3W-400|405|410|415PB-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

#### **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 \*





**Linear Power Performance Warranty\*** 

12 Years Enhanced Product Warranty on Materials and Workmanship\*

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 / UKCA CEC listed (US California) / FSEC (US Florida) UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68

Canadian Solar recycles panels at the end of life cycle





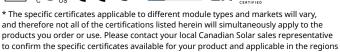










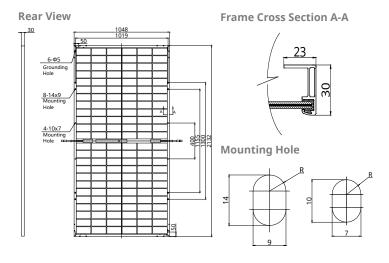


in which the products will be used. CSI Solar Co., Ltd. is committed to providing high quality solar

photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 63 GW of premium-quality solar modules across the world.

<sup>\*</sup> For detailed information, please refer to Installation Manual.

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

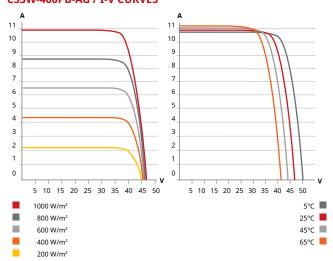


# **ELECTRICAL DATA | STC\***

		Nominal Max. Power (Pmax)		Opt. Operating Current (Imp)		Short Circuit Current (Isc)	Module Efficiency
CS3W-400PB-AG		400 W	38.7 V	10.34 A	47.2 V	10.90 A	17.9%
Bifacial Gain**	5%	420 W	38.7 V	10.86 A	47.2 V	11.45 A	18.8%
	10%	440 W	38.7 V	11.37 A	47.2 V	11.99 A	19.7%
	20%	480 W	38.7 V	12.41 A	47.2 V	13.08 A	21.5%
	30%	520 W	38.7 V	13.44 A	47.2 V	14.17 A	23.3%
CS3W-405PB-AG		405 W	38.9 V	10.42 A	47.4 V	10.98 A	18.1%
Bifacial Gain**	5%	425 W	38.9 V	10.94 A	47.4 V	11.53 A	19.0%
	10%	446 W	38.9 V	11.46 A	47.4 V	12.08 A	20.0%
	20%	486 W	38.9 V	12.50 A	47.4 V	13.18 A	21.8%
	30%	527 W	38.9 V	13.55 A	47.4 V	14.27 A	23.6%
CS3W-410PB-AG		410 W	39.1 V	10.49 A	47.6 V	11.06 A	18.4%
Bifacial Gain**	5%	431 W	39.1 V	11.01 A	47.6 V	11.61 A	19.3%
	10%	451 W	39.1 V	11.54 A	47.6 V	12.17 A	20.2%
	20%	492 W	39.1 V	12.59 A	47.6 V	13.27 A	22.0%
	30%	533 W	39.1 V	13.64 A	47.6 V	14.38 A	23.9%
CS3W-415PB-AG		415 W	39.3 V	10.56 A	47.8 V	11.14 A	18.6%
Bifacial Gain**	5%	436 W	39.3 V	11.09 A	47.8 V	11.70 A	19.5%
	10%	457 W	39.3 V	11.62 A	47.8 V	12.25 A	20.4%
	20%	498 W	39.3 V	12.67 A	47.8 V	13.37 A	22.3%
	30%	540 W	39.3 V	13.73 A	47.8 V	14.48 A	24.2%
* Under Standard Tost Conditions (STC) of irradiance of 1000 W/m <sup>2</sup> spectrum AM 1.5 and cell							

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

#### CS3W-400PB-AG / I-V CURVES



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

	•				
	Nominal	Opt.	Opt.	Open	Short
	Max.	Operating			Circuit
	Power	Voltage	Current	Voltage	Current
	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
CS3W-400PB-AG	299 W	36.2 V	8.27 A	44.5 V	8.79 A
CS3W-405PB-AG	303 W	36.3 V	8.33 A	44.7 V	8.85 A
CS3W-410PB-AG	307 W	36.5 V	8.39 A	44.8 V	8.92 A
CS3W-415PB-AG	310 W	36.7 V	8.45 A	45.0 V	8.98 A

<sup>\*</sup> 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	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 with anti- reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	400 mm (15.7 in) (+) / 280 mm (11.0 in) (-) or customized length*
Connector	T4 or PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY (IEC 1500 V)
Per Pallet	33 pieces
Day Cantainay (401110	v 660 piocos

Per Container (40' HQ) 660 pieces

#### **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 %			
* Davier Diferiality - Dressy / Dress	both Dropy and Dropy are tested under CTC Difesion			

<sup>\*</sup> Power Bifaciality = Pmax $_{\rm rear}$  / Pmax $_{\rm front}$ , both Pmax $_{\rm rear}$  and Pmax $_{\rm front}$  are tested under STC, Bifaciality Tolerance:  $\pm$  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.

# **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

#### Canadian Solar MSS (Australia) Pty Ltd.

<sup>\*\*</sup> 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.

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

<sup>\*</sup> 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 without further notice.