

BiHiKu

HIGH POWER BIFACIAL MONO PERC MODULE

435 W ~ 460 W

UP TO 30% MORE POWER FROM THE BACK SIDE

CS3W-435 | 440 | 445 | 450 | 455 | 460 MB-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): -0.34 % / °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 *

12 Years

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 / UKCA FSEC (US Florida) / UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 Take-e-way





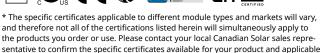


in the regions in which the products will be used.







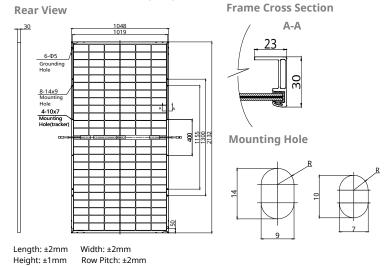


CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 70 GW of premium-quality solar modules across the

FRONT

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

ENGINEERING DRAWING (mm)



ELECTRICAL DATA | STC*

		Nominal	Opt.	Opt.	Open	Short	
		Max.	Operating			Circuit	Module
		Power (Pmax)	Voltage (Vmp)	Ċurrent (Imp)	Voltage (Voc)	Current (Isc)	Efficiency
CS3W-435M	IB-AG		40.5 V	10.75 A	48.5 V	11.42 A	19.5%
	5%	457 W	40.5 V	11.29 A	48.5 V	11.99 A	20.5%
Bifacial	10%	479 W	40.5 V	11.83 A	48.5 V	12.56 A	21.4%
Gain**	20%	522 W	40.5 V	12.90 A	48.5 V	13.70 A	23.4%
	30%		40.5 V	13.98 A	48.5 V	14.85 A	25.3%
CS3W-440M			40.7 V	10.82 A	48.7 V	11.48 A	19.7%
	5%	462 W	40.7 V	11.36 A	48.7 V	12.05 A	20.7%
Bifacial	10%	484 W	40.7 V	11.90 A	48.7 V	12.63 A	21.7%
Gain**	20%	528 W	40.7 V	12.98 A	48.7 V	13.78 A	23.6%
	30%	572 W	40.7 V	14.07 A	48.7 V	14.92 A	25.6%
CS3W-445M	IB-AG	445 W	40.9 V	10.89 A	48.9 V	11.54 A	19.9%
	5%	467 W	40.9 V	11.43 A	48.9 V	12.12 A	20.9%
Bifacial	10%	490 W	40.9 V	11.98 A	48.9 V	12.69 A	21.9%
Gain**	20%	534 W	40.9 V	13.07 A	48.9 V	13.85 A	23.9%
	30%	579 W	40.9 V	14.16 A	48.9 V	15.00 A	25.9%
CS3W-450M	B-AG	450 W	41.1 V	10.96 A	49.1 V	11.60 A	20.1%
	5%	473 W	41.1 V	11.51 A	49.1 V	12.18 A	21.2%
Bifacial	10%	495 W	41.1 V	12.06 A	49.1 V	12.76 A	22.2%
Gain**	20%	540 W	41.1 V	13.15 A	49.1 V	13.92 A	24.2%
	30%	585 W	41.1 V	14.25 A	49.1 V	15.08 A	26.2%
CS3W-455M	IB-AG	455 W	41.3 V	11.02 A	49.3 V	11.66 A	20.4%
	5%	478 W	41.3 V	11.57 A	49.3 V	12.24 A	21.4%
Bifacial	10%	501 W	41.3 V	12.12 A	49.3 V	12.83 A	22.4%
Gain**	20%	546 W	41.3 V	13.22 A	49.3 V	13.99 A	24.4%
	30%	592 W	41.3 V	14.33 A	49.3 V	15.16 A	26.5%
CS3W-460M	B-AG	460 W	41.5 V	11.09 A	49.5 V	11.72 A	20.6%
	5%	483 W	41.5 V	11.64 A	49.5 V	12.31 A	21.6%
Bifacial	10%	506 W	41.5 V	12.20 A	49.5 V	12.89 A	22.7%
Gain**	20%	552 W	41.5 V	13.31 A	49.5 V	14.06 A	24.7%
	30%	598 W	41.5 V	14.42 A	49.5 V	15.24 A	26.8%

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

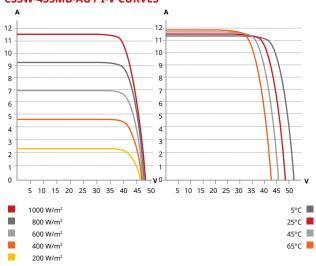
ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Madula Fina Danfannana	TYPE 29 (UL 61730)
Module Fire Performance	or CLASS C (IEC61730)
Max. Series Fuse Rating	25 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	70 %
# D D:C : I': D /D	1 1 D 1 D 1 D 1 T C D'S 1

 $[\]dot{*}$ 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.

CS3W-435MB-AG / I-V CURVES



ELECTRICAL DATA | NMOT*

	Nominal		Opt.	Open	Short
	Max. Power (Pmax)	Voltage (Vmp)	Operating Current (Imp)	Voltage (Voc)	Circuit Current (Isc)
CS3W-435MB-AG	326 W	38.0 V	8.59 A	45.8 V	9.21 A
CS3W-440MB-AG	330 W	38.2 V	8.65 A	46.0 V	9.26 A
CS3W-445MB-AG	334 W	38.3 V	8.71 A	46.2 V	9.31 A
CS3W-450MB-AG	338 W	38.5 V	8.76 A	46.4 V	9.35 A
CS3W-455MB-AG	341 W	38.7 V	8.82 A	46.6 V	9.40 A
CS3W-460MB-AG	345 W	38.9 V	8.87 A	46.8 V	9.45 A
* Under Naminal Medul	o Operating	Tomporaturo	NIMOT) irradia	nco of onn	M//m2

^{*} 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	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 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	400 mm (15.7 in) (+) / 280 mm (11.0 in) (-) or customized length*
Connector	T6 or T4 series or MC4-EVO2
Per Pallet	33 pieces
Per Container (40' HO)	660 pieces or 627 pieces (only for US)

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.34 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

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^{**} 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.

^{*} 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.