



NEW
BiHiKu7
BIFACIAL MONO PERC
640 W ~ 670 W
CS7N-640 | 645 | 650 | 655 | 660 | 665 | 670MB-AG

MORE POWER

670 W Module power up to 670 W
 Module efficiency up to 21.6 %

Up to 8.9 % lower LCOE
 Up to 4.6 % lower system cost

Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation

Compatible with mainstream trackers, cost effective product for utility power plant

Better shading tolerance

MORE RELIABLE

40 °C lower hot spot temperature, greatly reduce module failure rate

Minimizes micro-crack impacts

Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

12 Years Enhanced Product Warranty on Materials and Workmanship*

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



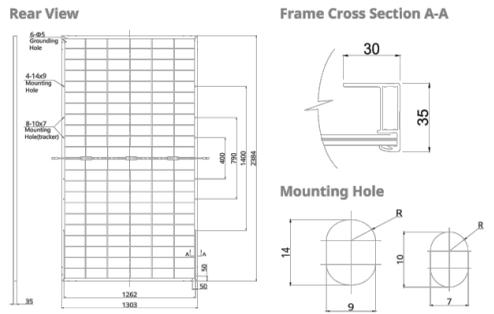
* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates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

* For detailed information, please refer to the Installation Manual.

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ENGINEERING DRAWING (mm)



ELECTRICAL DATA | STC*

	Nominal Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS7N-640MB-AG	640 W	37.5 V	17.07 A	44.6 V	18.31 A	20.6%
Bifacial Gain**	5% 672 W	37.5 V	17.92 A	44.6 V	19.23 A	21.6%
	10% 704 W	37.5 V	18.78 A	44.6 V	20.14 A	22.7%
	20% 768 W	37.5 V	20.48 A	44.6 V	21.97 A	24.7%
CS7N-645MB-AG	645 W	37.7 V	17.11 A	44.8 V	18.35 A	20.8%
Bifacial Gain**	5% 677 W	37.7 V	17.97 A	44.8 V	19.27 A	21.8%
	10% 710 W	37.7 V	18.84 A	44.8 V	20.19 A	22.9%
	20% 774 W	37.7 V	20.53 A	44.8 V	22.02 A	24.9%
CS7N-650MB-AG	650 W	37.9 V	17.16 A	45.0 V	18.39 A	20.9%
Bifacial Gain**	5% 683 W	37.9 V	18.03 A	45.0 V	19.31 A	22.0%
	10% 715 W	37.9 V	18.88 A	45.0 V	20.23 A	23.0%
	20% 780 W	37.9 V	20.59 A	45.0 V	22.07 A	25.1%
CS7N-655MB-AG	655 W	38.1 V	17.20 A	45.2 V	18.43 A	21.1%
Bifacial Gain**	5% 688 W	38.1 V	18.06 A	45.2 V	19.35 A	22.1%
	10% 721 W	38.1 V	18.93 A	45.2 V	20.27 A	23.2%
	20% 786 W	38.1 V	20.64 A	45.2 V	22.12 A	25.3%
CS7N-660MB-AG	660 W	38.3 V	17.24 A	45.4 V	18.47 A	21.2%
Bifacial Gain**	5% 693 W	38.3 V	18.10 A	45.4 V	19.39 A	22.3%
	10% 726 W	38.3 V	18.96 A	45.4 V	20.32 A	23.4%
	20% 792 W	38.3 V	20.69 A	45.4 V	22.16 A	25.5%
CS7N-665MB-AG	665 W	38.5 V	17.28 A	45.6 V	18.51 A	21.4%
Bifacial Gain**	5% 698 W	38.5 V	18.14 A	45.6 V	19.44 A	22.5%
	10% 732 W	38.5 V	19.02 A	45.6 V	20.36 A	23.6%
	20% 798 W	38.5 V	20.74 A	45.6 V	22.21 A	25.7%
CS7N-670MB-AG	670 W	38.7 V	17.32 A	45.8 V	18.55 A	21.6%
Bifacial Gain**	5% 704 W	38.7 V	18.20 A	45.8 V	19.48 A	22.7%
	10% 737 W	38.7 V	19.05 A	45.8 V	20.41 A	23.7%
	20% 804 W	38.7 V	20.78 A	45.8 V	22.26 A	25.9%

* 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

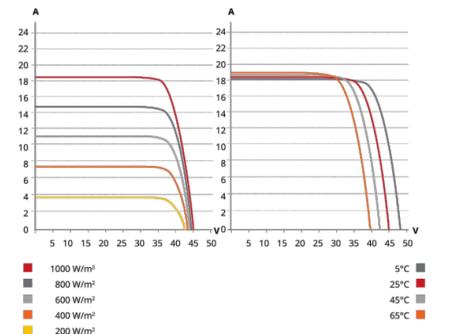
Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	70 %

* Power Bifaciality = Pmax_{rear} / Pmax_{total}, both Pmax_{rear} and Pmax_{total} are tested under STC, Bifaciality Tolerance: ± 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. CSI Solar Co., Ltd. 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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CS7N-650MB-AG / I-V CURVES



ELECTRICAL DATA | NMOT*

	Nominal Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-640MB-AG	480 W	35.2 V	13.64 A	42.2 V	14.77 A
CS7N-645MB-AG	484 W	35.3 V	13.72 A	42.3 V	14.80 A
CS7N-650MB-AG	487 W	35.5 V	13.74 A	42.5 V	14.83 A
CS7N-655MB-AG	491 W	35.7 V	13.76 A	42.7 V	14.86 A
CS7N-660MB-AG	495 W	35.9 V	13.79 A	42.9 V	14.89 A
CS7N-665MB-AG	499 W	36.1 V	13.83 A	43.1 V	14.93 A
CS7N-670MB-AG	502 W	36.3 V	13.85 A	43.3 V	14.96 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	132 [2 x (11 x 6)]
Dimensions	2384 x 1303 x 35 mm (93.9 x 51.3 x 1.38 in)
Weight	37.9 kg (83.6 lbs)
Front Glass	2.0 mm heat strengthened glass with anti-reflective coating
Back Glass	2.0 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4.0 mm ² (IEC), 10 AWG (UL)
Cable Length (Including Connector)	460 mm (18.1 in) (+) / 340 mm (13.4 in) (-) or customized length*
Connector	T4 series or MC4-EVO2
Per Pallet	31 pieces
Per Container (40' HQ)	527 pieces or 465 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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IMPIANTO DI PRODUZIONE DI ENERGIA DA FONTE FOTOVOLTAICA POTENZA NOMINALE 85 MW

REGIONE SICILIA 	PROVINCIA di CATANIA 	COMUNE di RAMACCA Località " Contrada Balconere"
		COMUNE di CASTEL DI IUDICA Località "Contrada Comunelli"

Scala:	Formato Stampa:	PROGETTO DEFINITIVO
-	A2	
TAVOLA		PANNELLO FOTOVOLTAICO
A.12.b.2		

Progettazione:	Committenza:
Responsabili Progetto:	

Catalogazione Elaborato	ITS_CQG_A12b2_PANNELLO FOTOVOLTAICO.pdf			
	ITS_CQG_A12b2_PANNELLO FOTOVOLTAICO.dwg			
Data	Motivo della revisione:	Redatto:	Controllato:	Approvato:
Marzo 2023	Prima emissione	LS	QV/AS	RSV

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