



FRONT

BACK

TOPBiHiKu7

BIFACIAL TOPCON

650 W ~ 720 W

CS7N-650 | 655 | 660 | 665 | 670 | 675 | 680 | 685 | 690 | 695 | 700 | 705 | 710 | 715 | 720TB-AG (IEC1000 V)

CS7N-650 | 655 | 660 | 665 | 670 | 675 | 680 | 685 | 690 | 695 | 700 | 705 | 710 | 715 | 720TB-AG (IEC1500 V)

MORE POWER



Module power up to 720 W
Module efficiency up to 23.2 %



Up to 85% Power Bifaciality,
more power from the back side



Excellent anti-LeTID & anti-PID performance.
Low power degradation, high energy yield



Lower temperature coefficient (Pmax): -0.30%/°C,
increases energy yield in hot climate



Lower LCOE & system cost

MORE RELIABLE



Minimizes micro-crack impacts



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



Enhanced Product Warranty on Materials and Workmanship*



Linear Power Performance Warranty*

1st year power degradation no more than 1%
Subsequent annual power degradation no more than 0.4%

*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*

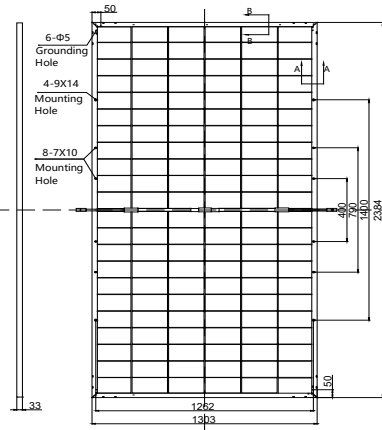
* The specific certificates applicable to different module types and markets will vary, and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates 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 70 GW of premium-quality solar modules across the world.

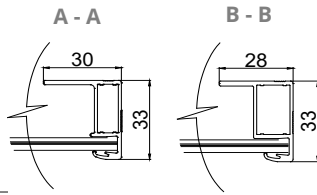
* For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

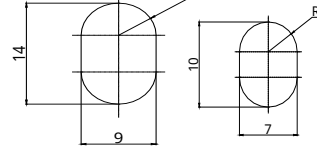
Rear View



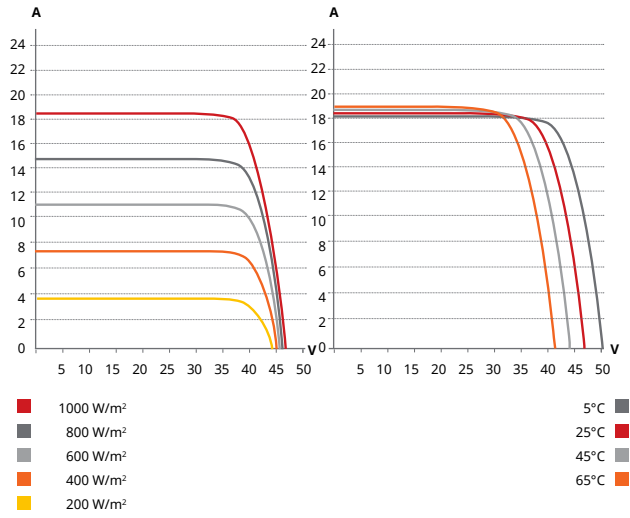
Frame Cross Section



Mounting Hole



CS7N-680TB-AG / I-V CURVES



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	
CS7N-650TB-AG	650 W	38.0 V	17.11 A	45.9 V	17.99 A	20.9%	
Bifacial Gain**	5%	683 W	38.0 V	17.97 A	45.9 V	18.89 A	22.0%
	10%	715 W	38.0 V	19.76 A	45.9 V	19.79 A	23.0%
	20%	780 W	38.0 V	20.53 A	45.9 V	21.59 A	25.1%
CS7N-655TB-AG	655 W	38.2 V	17.15 A	46.1 V	18.04 A	21.1%	
Bifacial Gain**	5%	688 W	38.2 V	18.01 A	46.1 V	18.94 A	22.1%
	10%	721 W	38.2 V	19.81 A	46.1 V	19.84 A	23.2%
	20%	786 W	38.2 V	20.58 A	46.1 V	21.65 A	25.3%
CS7N-660TB-AG	660 W	38.4 V	17.19 A	46.3 V	18.09 A	21.2%	
Bifacial Gain**	5%	693 W	38.4 V	18.05 A	46.3 V	18.99 A	22.3%
	10%	726 W	38.4 V	19.85 A	46.3 V	19.90 A	23.4%
	20%	792 W	38.4 V	20.63 A	46.3 V	21.71 A	25.5%

* 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).

** 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 ~ + 5 W
Power Bifaciality*	80 %

* Power Bifaciality = $P_{max_{rear}} / P_{max_{front}}$, both $P_{max_{rear}}$ and $P_{max_{front}}$ are tested under STC, Bifaciality Tolerance: ± 5 %

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-650TB-AG	491 W	35.9 V	13.68 A	43.4 V	14.51 A
CS7N-655TB-AG	494 W	36.1 V	13.72 A	43.6 V	14.55 A
CS7N-660TB-AG	498 W	36.2 V	13.75 A	43.8 V	14.59 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	TOPCon cells
Cell Arrangement	132 [2 x (11 x 6)]
Dimensions	2384 x 1303 x 33 mm (93.9 x 51.3 x 1.30 in)
Weight	37.8 kg (83.3 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	T6 (IEC 1500V) or PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY (IEC 1500V) or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (IEC 1500V)
Per Pallet	33 pieces
Per Container (40' HQ)	561 pieces

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.30 % / °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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Canadian Solar MSS (Australia) Pty Ltd.

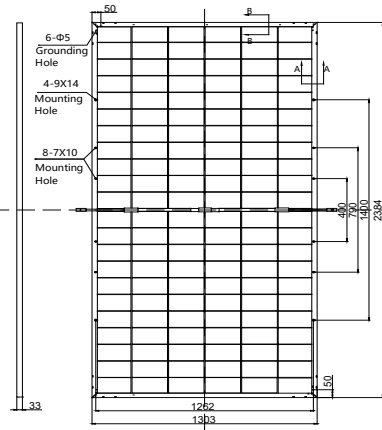
333 Drummond Street, Carlton VIC 3053, Australia, sales.au@csisolar.com, www.csisolar.com/au

October 2022. All rights reserved, PV Module Product Datasheet V1.1C1_AU

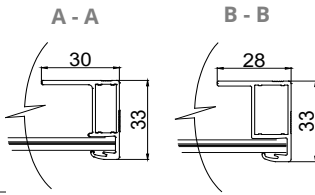
* Manufactured and assembled in China, Thailand and Vietnam.

ENGINEERING DRAWING (mm)

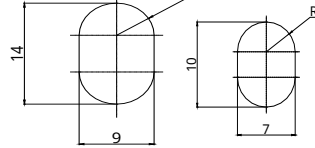
Rear View



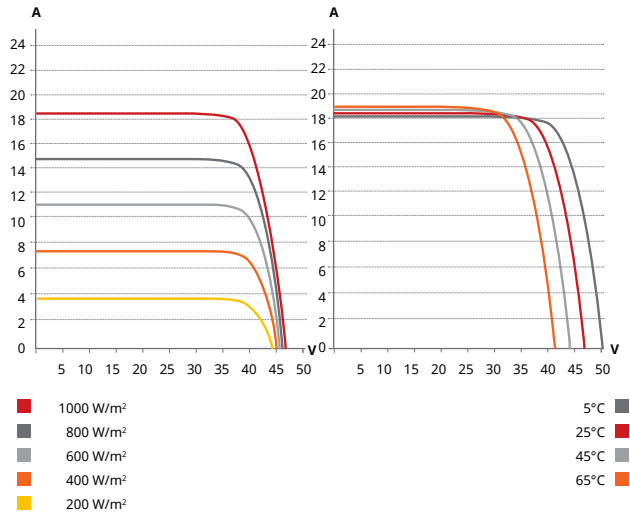
Frame Cross Section



Mounting Hole



CS7N-680TB-AG / I-V CURVES



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
CS7N-665TB-AG	665 W	38.6 V	17.23 A	46.5 V	18.14 A	21.4%
Bifacial Gain**	5%	698 W	38.6 V	18.09 A	46.5 V	22.5%
	10%	732 W	38.6 V	18.97 A	46.5 V	23.6%
	20%	798 W	38.6 V	20.68 A	46.5 V	25.7%
CS7N-670TB-AG	670 W	38.8 V	17.27 A	46.7 V	18.19 A	21.6%
Bifacial Gain**	5%	704 W	38.8 V	18.15 A	46.7 V	22.7%
	10%	737 W	38.8 V	19.00 A	46.7 V	23.7%
	20%	804 W	38.8 V	20.72 A	46.7 V	25.9%
CS7N-675TB-AG	675 W	39.0 V	17.31 A	46.9 V	18.24 A	21.7%
Bifacial Gain**	5%	709 W	39.0 V	18.19 A	46.9 V	22.8%
	10%	743 W	39.0 V	19.04 A	46.9 V	23.9%
	20%	810 W	39.0 V	20.77 A	46.9 V	26.1%
CS7N-680TB-AG	680 W	39.2 V	17.35 A	47.1 V	18.29 A	21.9%
Bifacial Gain**	5%	714 W	39.2 V	18.22 A	47.1 V	23.0%
	10%	748 W	39.2 V	19.09 A	47.1 V	24.1%
	20%	816 W	39.2 V	20.82 A	47.1 V	26.3%
CS7N-685TB-AG	685 W	39.4 V	17.39 A	47.3 V	18.34 A	22.1%
Bifacial Gain**	5%	719 W	39.4 V	18.26 A	47.3 V	23.1%
	10%	754 W	39.4 V	19.14 A	47.3 V	24.3%
	20%	822 W	39.4 V	20.87 A	47.3 V	26.5%
CS7N-690TB-AG	690 W	39.6 V	17.43 A	47.5 V	18.39 A	22.2%
Bifacial Gain**	5%	725 W	39.6 V	18.31 A	47.5 V	23.3%
	10%	759 W	39.6 V	19.17 A	47.5 V	24.4%
	20%	828 W	39.6 V	20.92 A	47.5 V	26.7%

* 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).
 ** 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 | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-665TB-AG	502 W	36.4 V	13.78 A	44.0 V	14.63 A
CS7N-670TB-AG	506 W	36.6 V	13.81 A	44.1 V	14.67 A
CS7N-675TB-AG	510 W	36.8 V	13.84 A	44.3 V	14.71 A
CS7N-680TB-AG	513 W	37.0 V	13.88 A	44.5 V	14.75 A
CS7N-685TB-AG	517 W	37.2 V	13.91 A	44.7 V	14.79 A
CS7N-690TB-AG	521 W	37.4 V	13.94 A	44.9 V	14.83 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	TOPCon cells
Cell Arrangement	132 [2 x (11 x 6)]
Dimensions	2384 x 1303 x 33 mm (93.9 x 51.3 x 1.30 in)
Weight	37.8 kg (83.3 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	T6 (IEC 1500V) or PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY (IEC 1500V) or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (IEC 1500V)
Per Pallet	33 pieces
Per Container (40' HQ)	561 pieces

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

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 ~ + 5 W
Power Bifaciality*	80 %

* Power Bifaciality = Pmax_{rear} / Pmax_{front}, both Pmax_{rear} and Pmax_{front} are tested under STC, Bifaciality Tolerance: ± 5 %

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.30 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

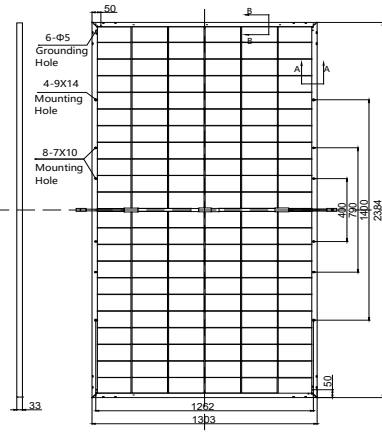


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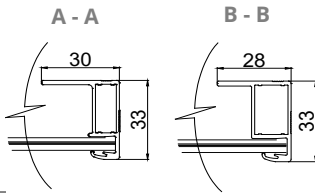
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ENGINEERING DRAWING (mm)

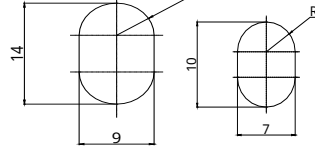
Rear View



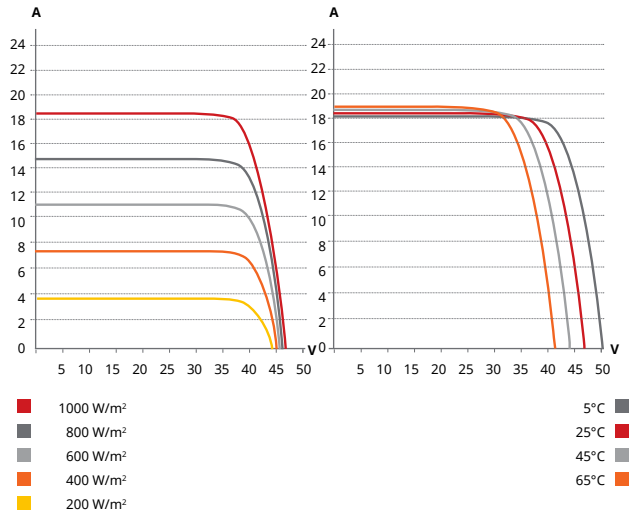
Frame Cross Section



Mounting Hole



CS7N-680TB-AG / I-V CURVES



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
CS7N-695TB-AG	695 W	39.8 V	17.47 A	47.7 V	18.44 A	22.4%
Bifacial Gain**	5%	730 W	39.8 V	18.34 A	47.7 V	23.5%
	10%	765 W	39.8 V	20.18 A	47.7 V	24.6%
	20%	834 W	39.8 V	20.96 A	47.7 V	26.8%
CS7N-700TB-AG	700 W	40.0 V	17.51 A	47.9 V	18.49 A	22.5%
Bifacial Gain**	5%	735 W	40.0 V	18.39 A	47.9 V	23.7%
	10%	770 W	40.0 V	20.22 A	47.9 V	24.8%
	20%	840 W	40.0 V	21.01 A	47.9 V	27.0%
CS7N-705TB-AG	705 W	40.2 V	17.55 A	48.1 V	18.54 A	22.7%
Bifacial Gain**	5%	740 W	40.2 V	18.43 A	48.1 V	23.8%
	10%	776 W	40.2 V	20.27 A	48.1 V	25.0%
	20%	846 W	40.2 V	21.06 A	48.1 V	27.2%
CS7N-710TB-AG	710 W	40.4 V	17.59 A	48.3 V	18.59 A	22.9%
Bifacial Gain**	5%	746 W	40.4 V	18.47 A	48.3 V	24.0%
	10%	781 W	40.4 V	20.32 A	48.3 V	25.1%
	20%	852 W	40.4 V	21.11 A	48.3 V	27.4%
CS7N-715TB-AG	715 W	40.6 V	17.63 A	48.5 V	18.64 A	23.0%
Bifacial Gain**	5%	751 W	40.6 V	18.51 A	48.5 V	24.2%
	10%	787 W	40.6 V	20.36 A	48.5 V	25.3%
	20%	858 W	40.6 V	21.16 A	48.5 V	27.6%
CS7N-720TB-AG	720 W	40.8 V	17.67 A	48.7 V	18.69 A	23.2%
Bifacial Gain**	5%	756 W	40.8 V	18.55 A	48.7 V	24.3%
	10%	792 W	40.8 V	20.41 A	48.7 V	25.5%
	20%	864 W	40.8 V	21.20 A	48.7 V	27.8%

* 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).

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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 ~ + 5 W
Power Bifaciality*	80 %

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ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-695TB-AG	525 W	37.6 V	13.97 A	45.1 V	14.87 A
CS7N-700TB-AG	528 W	37.8 V	14.00 A	45.3 V	14.91 A
CS7N-705TB-AG	532 W	37.9 V	14.03 A	45.5 V	14.95 A
CS7N-710TB-AG	536 W	38.1 V	14.06 A	45.7 V	14.99 A
CS7N-715TB-AG	540 W	38.3 V	14.09 A	45.8 V	15.03 A
CS7N-720TB-AG	544 W	38.5 V	14.12 A	46.0 V	15.07 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	TOPCon cells
Cell Arrangement	132 [2 x (11 x 6)]
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Cable	4.0 mm ² (IEC), 10 AWG (UL)
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Connector	T6 (IEC 1500V) or PV-KST4-EVO2/XY, PV-KBT4-EVO2/XY (IEC 1500V) or PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy (IEC 1500V)
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TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.30 % / °C
Temperature Coefficient (Voc)	-0.26 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

