

Catálogo de **productos.**

| Paneles solares |



SUNTRA

By



SOTRACALGUE
LOGÍSTICA EFECTIVA EN MOVIMIENTO



HiKu6 Mono PERC

535 W ~ 555 W

CS6W-530 | 535 | 540 | 545 | 550 | 555MS

MORE POWER



Module power up to 555 W
Module efficiency up to 21.5 %



Up to 4.5 % lower LCOE
Up to 5.6 % 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



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 2%
Subsequent annual power degradation no more than 0.55%**

*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
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / UL 61730 / 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.



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

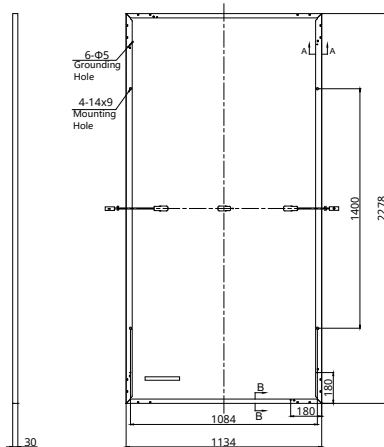
CSI Solar Co., Ltd.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

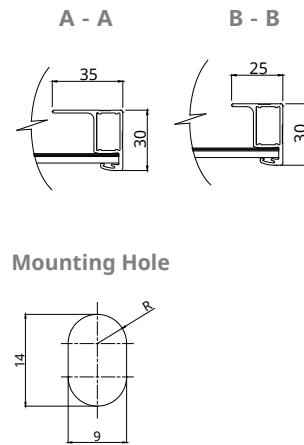
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 20 years, it has successfully delivered over 82 GW of premium-quality solar modules across the world.

ENGINEERING DRAWING (mm)

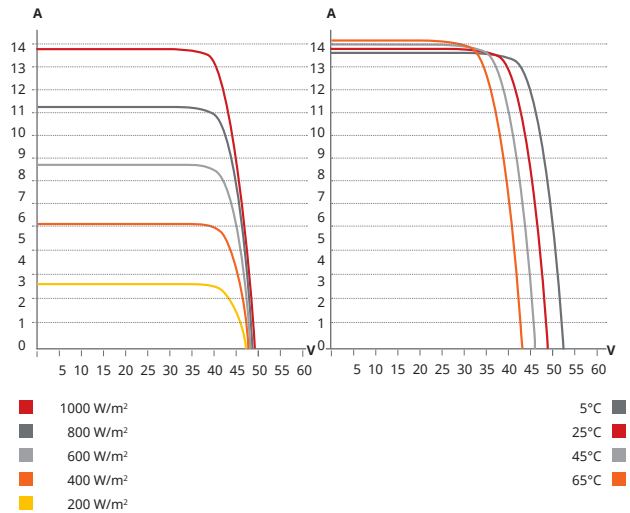
Rear View



Frame Cross Section



CS6W-530MS / I-V CURVES



ELECTRICAL DATA | STC*

CS6W	530MS	535MS	540MS	545MS	550MS	555MS
Nominal Max. Power (P _{max})	530 W	535 W	540 W	545 W	550 W	555 W
Opt. Operating Voltage (V _{mp})	40.9 V	41.1 V	41.3 V	41.5 V	41.7 V	41.9 V
Opt. Operating Current (I _{mp})	12.96 A	13.02 A	13.08 A	13.14 A	13.20 A	13.25 A
Open Circuit Voltage (V _{oc})	48.8 V	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V
Short Circuit Current (I _{sc})	13.80 A	13.85 A	13.90 A	13.95 A	14.00 A	14.05 A
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.3%	21.5%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

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

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	144 [2 x (12 x 6)]
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	27.6 kg (60.8 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
Per Container (40' HQ)	700 pieces or 630 pieces (only for US & Canada)

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

ELECTRICAL DATA | NMOT*

CS6W	530MS	535MS	540MS	545MS	550MS	555MS
Nominal Max. Power (P _{max})	397 W	401 W	405 W	409 W	412 W	416 W
Opt. Operating Voltage (V _{mp})	38.3 V	38.5 V	38.7 V	38.9 V	39.1 V	39.3 V
Opt. Operating Current (I _{mp})	10.38 A	10.42 A	10.47 A	10.52 A	10.55 A	10.59 A
Open Circuit Voltage (V _{oc})	46.1 V	46.3 V	46.5 V	46.7 V	46.9 V	47.1 V
Short Circuit Current (I _{sc})	11.13 A	11.17 A	11.21 A	11.25 A	11.29 A	11.33 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.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (P _{max})	-0.34 % / °C
Temperature Coefficient (V _{oc})	-0.26 % / °C
Temperature Coefficient (I _{sc})	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

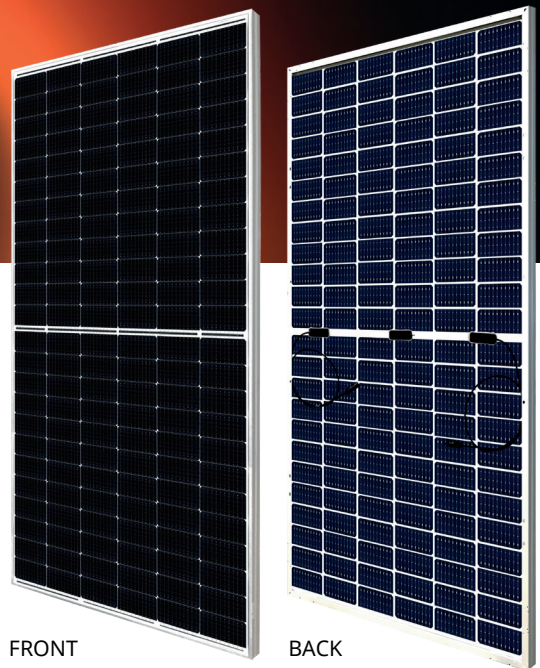


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FRONT

BACK

BiHiKu6

530 W ~ 555 W

BIFACIAL MONO PERC

CS6W-530 | 535 | 540 | 545 | 550 | 555MB-AG

MORE POWER

-  Module power up to 555 W
Module efficiency up to 21.5 %
-  Up to 12.3 % lower LCOE
Up to 5.2 % 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

-  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
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 63126 Level1 / IEC 60068-2-68
Take-e-way



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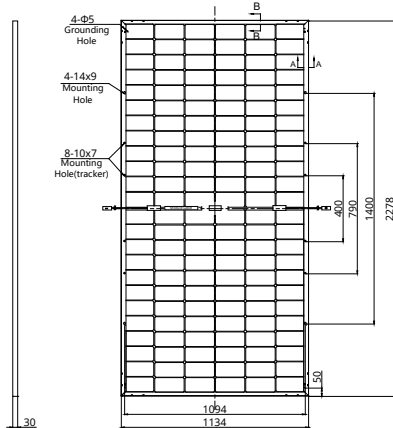
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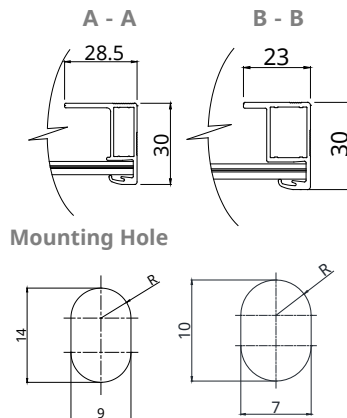
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ENGINEERING DRAWING (mm)

Rear View

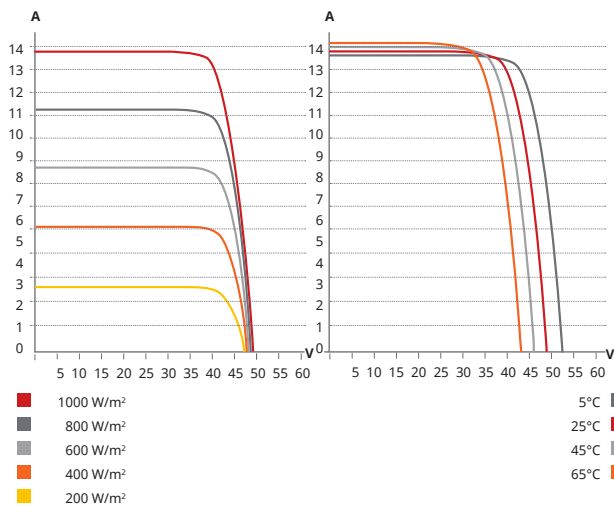


Frame Cross Section



Mounting Hole

CS6W-530MB-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
CS6W-530MB-AG	530 W	40.9 V	12.96 A	48.8 V	13.80 A	20.5%
Bifacial Gain**	5%	557 W	40.9 V	13.62 A	48.8 V	21.5%
	10%	583 W	40.9 V	14.26 A	48.8 V	22.6%
	20%	636 W	40.9 V	15.55 A	48.8 V	24.6%
CS6W-535MB-AG	535 W	41.1 V	13.02 A	49.0 V	13.85 A	20.7%
Bifacial Gain**	5%	562 W	41.1 V	13.68 A	49.0 V	21.8%
	10%	589 W	41.1 V	14.34 A	49.0 V	22.8%
	20%	642 W	41.1 V	15.62 A	49.0 V	24.9%
CS6W-540MB-AG	540 W	41.3 V	13.08 A	49.2 V	13.90 A	20.9%
Bifacial Gain**	5%	567 W	41.3 V	13.73 A	49.2 V	21.9%
	10%	594 W	41.3 V	14.39 A	49.2 V	23.0%
	20%	648 W	41.3 V	15.70 A	49.2 V	25.1%
CS6W-545MB-AG	545 W	41.5 V	13.14 A	49.4 V	13.95 A	21.1%
Bifacial Gain**	5%	572 W	41.5 V	13.80 A	49.4 V	22.2%
	10%	600 W	41.5 V	14.46 A	49.4 V	23.2%
	20%	654 W	41.5 V	15.77 A	49.4 V	25.3%
CS6W-550MB-AG	550 W	41.7 V	13.20 A	49.6 V	14.00 A	21.3%
Bifacial Gain**	5%	578 W	41.7 V	13.87 A	49.6 V	22.4%
	10%	605 W	41.7 V	14.52 A	49.6 V	23.4%
	20%	660 W	41.7 V	15.84 A	49.6 V	25.5%
CS6W-555MB-AG	555 W	41.9 V	13.25 A	49.8 V	14.05 A	21.5%
Bifacial Gain**	5%	583 W	41.9 V	13.91 A	49.8 V	22.6%
	10%	611 W	41.9 V	14.58 A	49.8 V	23.6%
	20%	666 W	41.9 V	15.90 A	49.8 V	25.8%

* 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	30 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 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: $\pm 5\%$

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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)
CS6W-530MB-AG	397 W	38.3 V	10.38 A	46.1 V	11.13 A
CS6W-535MB-AG	401 W	38.5 V	10.42 A	46.3 V	11.17 A
CS6W-540MB-AG	405 W	38.7 V	10.47 A	46.5 V	11.21 A
CS6W-545MB-AG	409 W	38.9 V	10.52 A	46.7 V	11.25 A
CS6W-550MB-AG	412 W	39.1 V	10.55 A	46.9 V	11.29 A
CS6W-555MB-AG	416 W	39.3 V	10.60 A	47.1 V	11.33 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	144 [2 x (12 x 6)]
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	32.3 kg (71.2 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), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
Per Container (40' HQ)	700 pieces or 560 pieces (only for US & Canada)

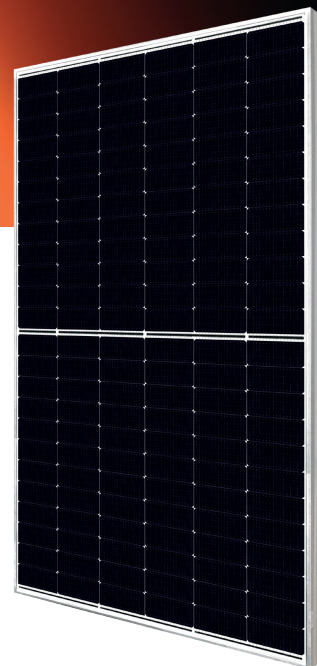
* For detailed information, please contact your local Canadian Solar sales and technical representatives.

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 $\pm$ 3°C

PARTNER SECTION





TOPHiKu6

N-type TOPCon Technology

570 W ~ 595 W

CS6W-570 | 575 | 580 | 585 | 590 | 595T

MORE POWER



Module power up to 595 W
Module efficiency up to 23.0 %



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



Lower temperature coefficient (Pmax): $-0.29\%/^{\circ}\text{C}$,
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
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PRODUCT CERTIFICATES*

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UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
Take-e-way



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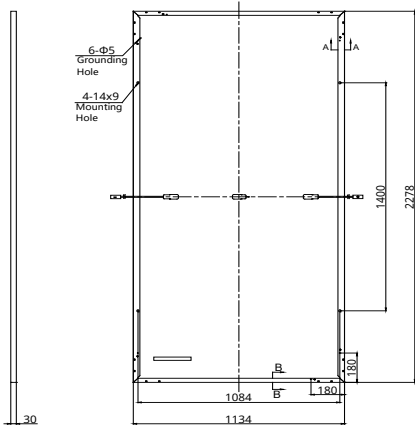
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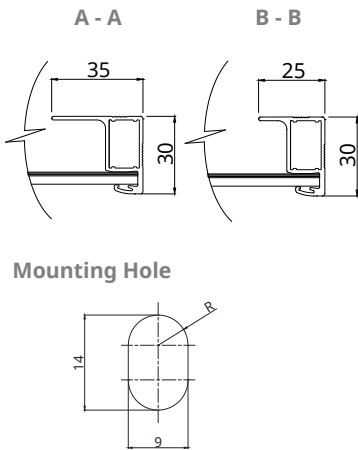
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ENGINEERING DRAWING (mm)

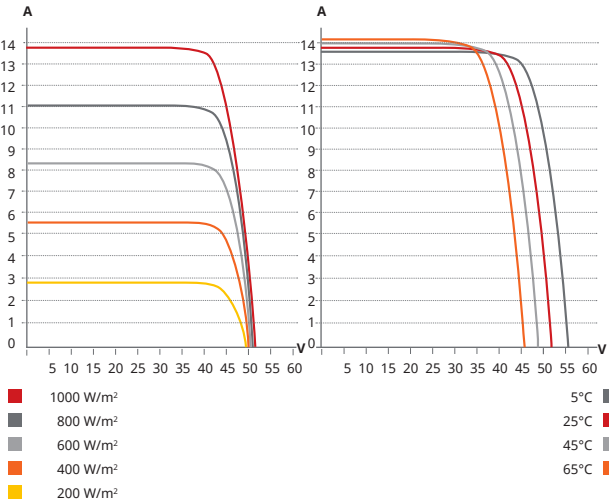
Rear View



Frame Cross Section



CS6W-570T / I-V CURVES



ELECTRICAL DATA | STC*

CS6W	570T	575T	580T	585T	590T	595T
Nominal Max. Power (Pmax)	570 W	575 W	580 W	585 W	590 W	595 W
Opt. Operating Voltage (Vmp)	42.7 V	42.9 V	43.1 V	43.3 V	43.5 V	43.7 V
Opt. Operating Current (Imp)	13.35 A	13.41 A	13.46 A	13.52 A	13.57 A	13.62 A
Open Circuit Voltage (Voc)	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V	52.8 V
Short Circuit Current (Isc)	13.81 A	13.88 A	13.93 A	14.00 A	14.06 A	14.12 A
Module Efficiency	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

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

ELECTRICAL DATA | NMOT*

CS6W	570T	575T	580T	585T	590T	595T
Nominal Max. Power (Pmax)	431 W	435 W	439 W	443 W	446 W	450 W
Opt. Operating Voltage (Vmp)	40.4 V	40.6 V	40.7 V	40.9 V	41.1 V	41.3 V
Opt. Operating Current (Imp)	10.68 A	10.72 A	10.77 A	10.81 A	10.85 A	10.89 A
Open Circuit Voltage (Voc)	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V	50.0 V
Short Circuit Current (Isc)	11.14 A	11.19 A	11.23 A	11.29 A	11.34 A	11.39 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	144 [2 x (12 x 6)]
Dimensions	2278 × 1134 × 30 mm (89.7 × 44.6 × 1.18 in)
Weight	27.6 kg (60.8 lbs)
Front Cover	3.2 mm tempered glass with anti-ref-lective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
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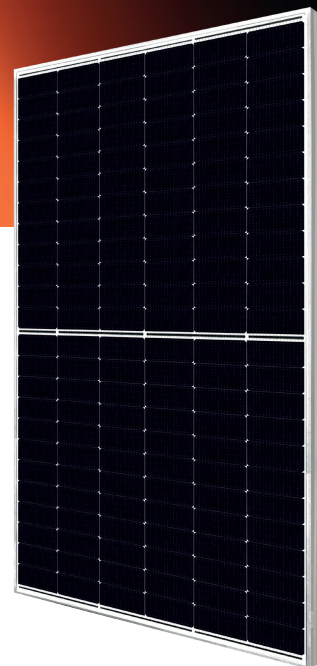
TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



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TOPHiKu6

N-type TOPCon Technology

570 W ~ 595 W

CS6W-570 | 575 | 580 | 585 | 590 | 595T

MORE POWER



Module power up to 595 W
Module efficiency up to 23.0 %



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



Lower temperature coefficient (Pmax): $-0.29\%/^{\circ}\text{C}$,
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%**

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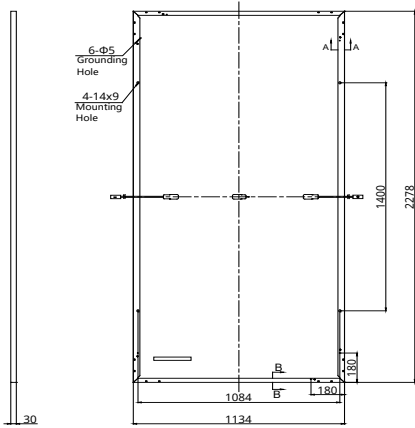
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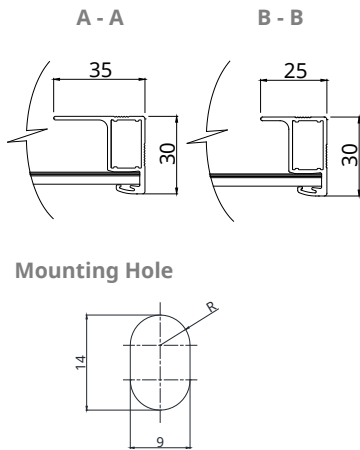
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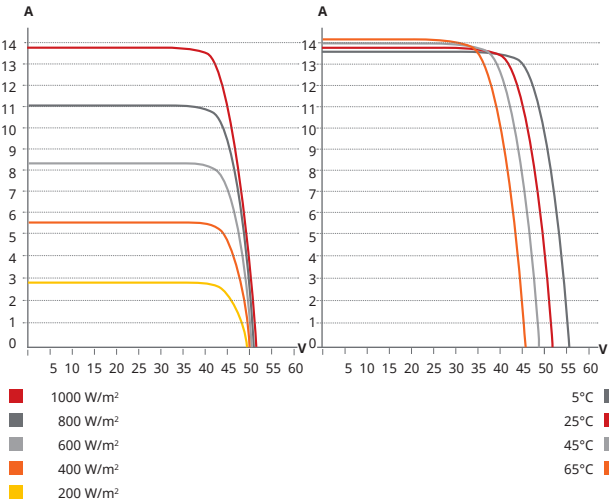
Rear View



Frame Cross Section



CS6W-570T / I-V CURVES



ELECTRICAL DATA | STC*

CS6W	570T	575T	580T	585T	590T	595T
Nominal Max. Power (Pmax)	570 W	575 W	580 W	585 W	590 W	595 W
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Opt. Operating Current (Imp)	13.35 A	13.41 A	13.46 A	13.52 A	13.57 A	13.62 A
Open Circuit Voltage (Voc)	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V	52.8 V
Short Circuit Current (Isc)	13.81 A	13.88 A	13.93 A	14.00 A	14.06 A	14.12 A
Module Efficiency	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

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

ELECTRICAL DATA | NMOT*

CS6W	570T	575T	580T	585T	590T	595T
Nominal Max. Power (Pmax)	431 W	435 W	439 W	443 W	446 W	450 W
Opt. Operating Voltage (Vmp)	40.4 V	40.6 V	40.7 V	40.9 V	41.1 V	41.3 V
Opt. Operating Current (Imp)	10.68 A	10.72 A	10.77 A	10.81 A	10.85 A	10.89 A
Open Circuit Voltage (Voc)	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V	50.0 V
Short Circuit Current (Isc)	11.14 A	11.19 A	11.23 A	11.29 A	11.34 A	11.39 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	144 [2 x (12 x 6)]
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	27.6 kg (60.8 lbs)
Front Cover	3.2 mm tempered glass with anti-ref-lective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
Per Container (40' HQ)	700 pieces or 630 pieces (only for US & Canada)

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



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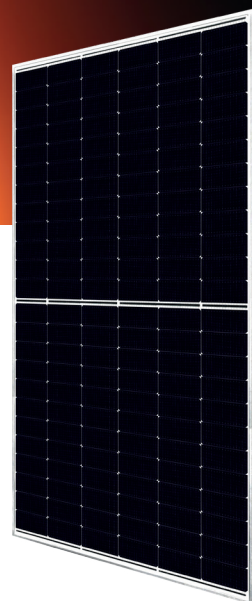
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CSI Solar Co., Ltd.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com



Preliminary Technical
Information Sheet



TOPHiKu6

N-type TOPCon Technology

595 W ~ 620 W

CS6.1-72TD-595 | 600 | 605 | 610 | 615 | 620

MORE POWER



Module power up to 620 W
Module efficiency up to 23.0 %



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



Lower temperature coefficient (Pmax): $-0.29\%/^{\circ}\text{C}$,
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
IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

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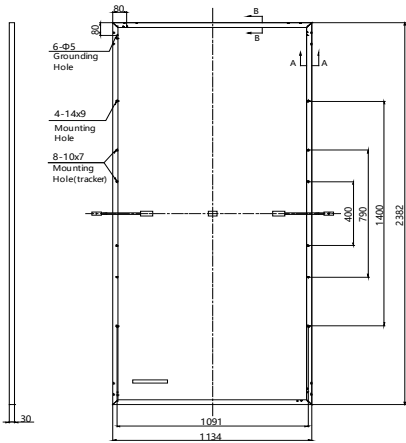


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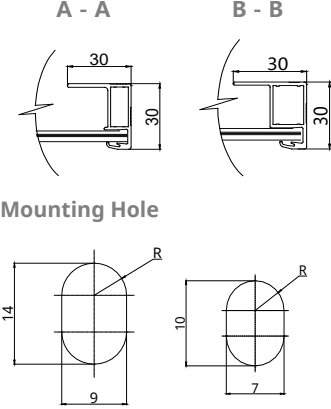
* For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

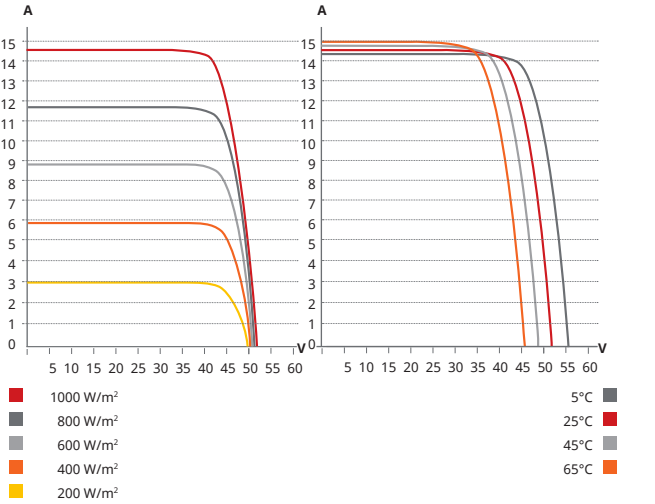
Rear View



Frame Cross Section



CS6.1-72TD-600 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.1-72TD	595	600	605	610	615	620
Nominal Max. Power (Pmax)	595 W	600 W	605 W	610 W	615 W	620 W
Opt. Operating Voltage (Vmp)	43.8 V	44.0 V	44.2 V	44.4 V	44.6 V	44.8 V
Opt. Operating Current (Imp)	13.59 A	13.64 A	13.69 A	13.74 A	13.79 A	13.84 A
Open Circuit Voltage (Voc)	51.6 V	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V
Short Circuit Current (Isc)	14.48 A	14.54 A	14.60 A	14.66 A	14.72 A	14.78 A
Module Efficiency	22.0%	22.2%	22.4%	22.6%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)					
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Application Classification	Class A					
Power Tolerance	0 ~ + 10 W					

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

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
Cell Arrangement	144 [2 x (12 x 6)]
Dimensions	2382 × 1134 × 30 mm (93.8 × 44.6 × 1.18 in)
Weight	33.6 kg (74.1 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 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	720 pieces

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

ELECTRICAL DATA | NMOT*

CS6.1-72TD	595	600	605	610	615	620
Nominal Max. Power (Pmax)	450 W	454 W	458 W	461 W	465 W	469 W
Opt. Operating Voltage (Vmp)	41.4 V	41.6 V	41.8 V	42.0 V	42.2 V	42.4 V
Opt. Operating Current (Imp)	10.87 A	10.91 A	10.95 A	10.99 A	11.03 A	11.07 A
Open Circuit Voltage (Voc)	48.9 V	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V
Short Circuit Current (Isc)	11.68 A	11.73 A	11.77 A	11.82 A	11.87 A	11.92 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.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



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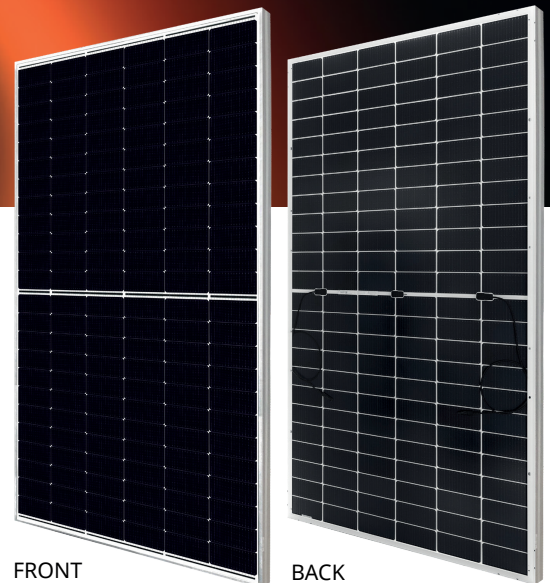


TOPBiHiKu6

N-type Bifacial TOPCon Technology

565 W ~ 590 W

CS6W-565 | 570 | 575 | 580 | 585 | 590TB-AG



MORE POWER



Module power up to 590 W
Module efficiency up to 22.8 %



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): $-0.29\%/^{\circ}\text{C}$,
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
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



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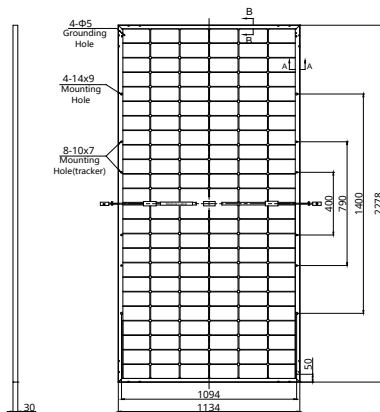
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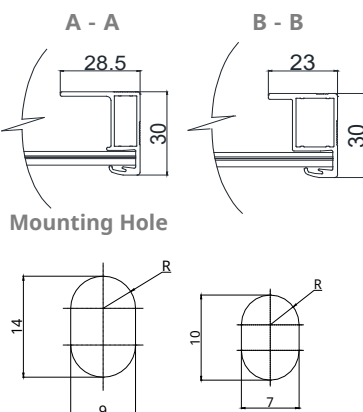
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ENGINEERING DRAWING (mm)

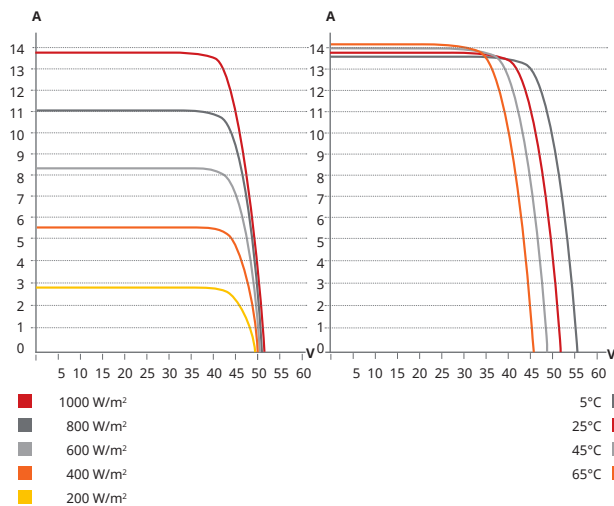
Rear View



Frame Cross Section



CS6W-570TB-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
CS6W-565TB-AG		565 W	42.5 V	13.30 A	51.6 V	13.75 A	21.9%
	Bifacial Gain**	5%	593 W	42.5 V	13.97 A	51.6 V	23.0%
		10%	622 W	42.5 V	14.63 A	51.6 V	24.1%
		20%	678 W	42.5 V	15.96 A	51.6 V	26.2%
CS6W-570TB-AG		570 W	42.7 V	13.35 A	51.8 V	13.81 A	22.1%
	Bifacial Gain**	5%	599 W	42.7 V	14.02 A	51.8 V	23.2%
		10%	627 W	42.7 V	14.69 A	51.8 V	24.3%
		20%	684 W	42.7 V	16.02 A	51.8 V	26.5%
CS6W-575TB-AG		575 W	42.9 V	13.41 A	52.0 V	13.88 A	22.3%
	Bifacial Gain**	5%	604 W	42.9 V	14.08 A	52.0 V	23.4%
		10%	633 W	42.9 V	14.75 A	52.0 V	24.5%
		20%	690 W	42.9 V	16.09 A	52.0 V	26.7%
CS6W-580TB-AG		580 W	43.1 V	13.46 A	52.2 V	13.93 A	22.5%
	Bifacial Gain**	5%	609 W	43.1 V	14.13 A	52.2 V	23.6%
		10%	638 W	43.1 V	14.81 A	52.2 V	24.7%
		20%	696 W	43.1 V	16.15 A	52.2 V	26.9%
CS6W-585TB-AG		585 W	43.3 V	13.52 A	52.4 V	14.00 A	22.6%
	Bifacial Gain**	5%	614 W	43.3 V	14.20 A	52.4 V	23.8%
		10%	644 W	43.3 V	14.87 A	52.4 V	24.9%
		20%	702 W	43.3 V	16.22 A	52.4 V	27.2%
CS6W-590TB-AG		590 W	43.5 V	13.57 A	52.6 V	14.06 A	22.8%
	Bifacial Gain**	5%	620 W	43.5 V	14.25 A	52.6 V	24.0%
		10%	649 W	43.5 V	14.93 A	52.6 V	25.1%
		20%	708 W	43.5 V	16.28 A	52.6 V	27.4%

* 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	30 A
Application Classification	Class A
Power Tolerance	0 ~ +10 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: $\pm 5\%$

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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)
CS6W-565TB-AG	427 W	40.2 V	10.64 A	48.9 V	11.09 A
CS6W-570TB-AG	431 W	40.4 V	10.68 A	49.0 V	11.14 A
CS6W-575TB-AG	435 W	40.6 V	10.72 A	49.2 V	11.19 A
CS6W-580TB-AG	439 W	40.7 V	10.77 A	49.4 V	11.23 A
CS6W-585TB-AG	443 W	40.9 V	10.81 A	49.6 V	11.29 A
CS6W-590TB-AG	446 W	41.1 V	10.85 A	49.8 V	11.34 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	144 [2 x (12 x 6)]
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	32.3 kg (71.2 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), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	35 pieces
Per Container (40' HQ)	700 pieces or 560 pieces (only for US & Canada)

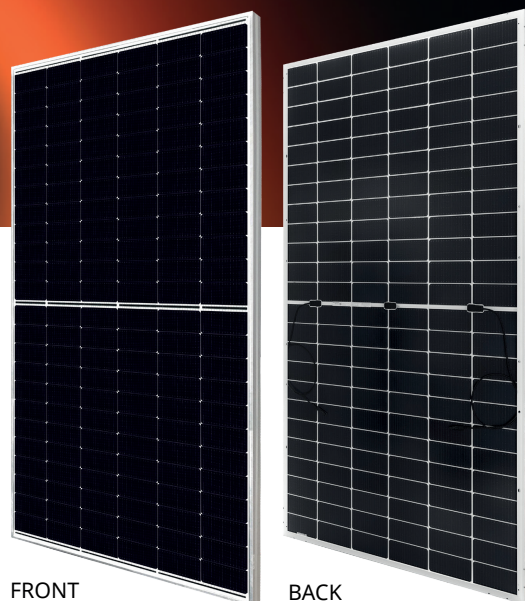
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TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 $\pm$ 3°C

PARTNER SECTION





TOPBiHiKu6

N-type Bifacial TOPCon Technology

590 W ~ 620 W

CS6.1-72TB-590 | 595 | 600 | 605 | 610 | 615 | 620

MORE POWER



Module power up to 620 W
Module efficiency up to 23.0 %



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): $-0.29\%/^{\circ}\text{C}$,
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*

12
Years

Enhanced Product Warranty on Materials
and Workmanship*

30
Years

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
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / MCS / UKCA / INMETRO / CGC
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



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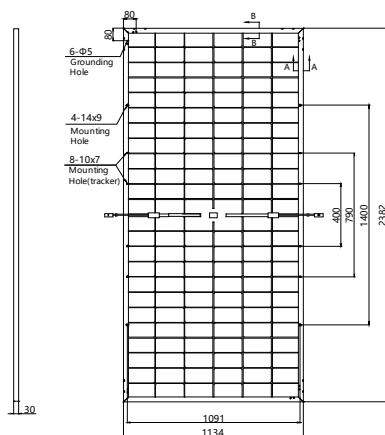
* For detailed information, please refer to the Installation Manual.

CSI Solar Co., Ltd.

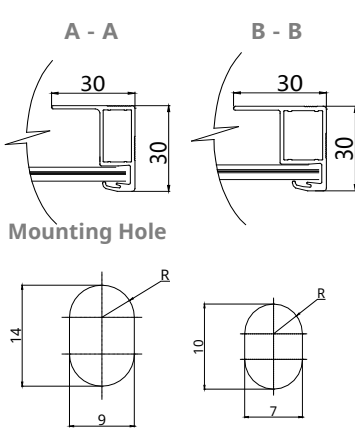
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ENGINEERING DRAWING (mm)

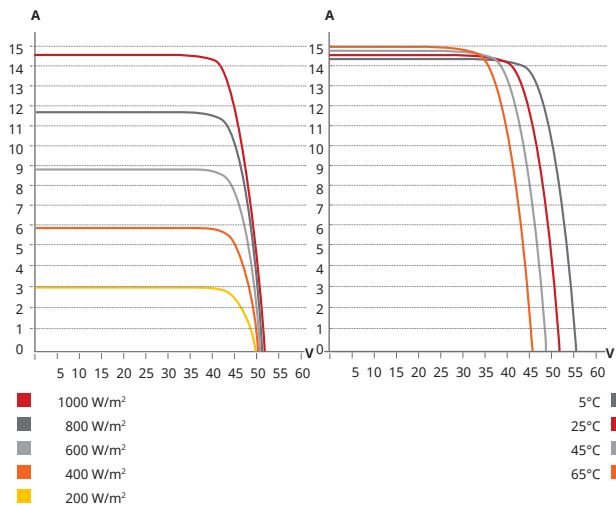
Rear View



Frame Cross Section



CS6.1-72TB-600 / 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
CS6.1-72TB-590		590 W	43.6 V	13.54 A	51.4 V	14.42 A	21.8%
	Bifacial Gain**						
	5%	620 W	43.6 V	14.22 A	51.4 V	15.14 A	23.0%
	10%	649 W	43.6 V	14.89 A	51.4 V	15.86 A	24.0%
CS6.1-72TB-595		595 W	43.8 V	13.59 A	51.6 V	14.48 A	22.0%
	Bifacial Gain**						
	5%	625 W	43.8 V	14.27 A	51.6 V	15.20 A	23.1%
	10%	655 W	43.8 V	14.95 A	51.6 V	15.93 A	24.2%
CS6.1-72TB-600		600 W	44.0 V	13.64 A	51.8 V	14.54 A	22.2%
	Bifacial Gain**						
	5%	630 W	44.0 V	14.32 A	51.8 V	15.27 A	23.3%
	10%	660 W	44.0 V	15.00 A	51.8 V	15.99 A	24.4%
CS6.1-72TB-605		605 W	44.2 V	13.69 A	52.0 V	14.60 A	22.4%
	Bifacial Gain**						
	5%	635 W	44.2 V	14.37 A	52.0 V	15.33 A	23.5%
	10%	666 W	44.2 V	15.06 A	52.0 V	16.06 A	24.7%
CS6.1-72TB-610		610 W	44.4 V	13.74 A	52.2 V	14.66 A	22.6%
	Bifacial Gain**						
	5%	641 W	44.4 V	14.43 A	52.2 V	15.39 A	23.7%
	10%	671 W	44.4 V	15.11 A	52.2 V	16.13 A	24.8%
CS6.1-72TB-615		615 W	44.6 V	13.79 A	52.4 V	14.72 A	22.8%
	Bifacial Gain**						
	5%	646 W	44.6 V	14.48 A	52.4 V	15.46 A	23.9%
	10%	677 W	44.6 V	15.17 A	52.4 V	16.19 A	25.1%
CS6.1-72TB-620		620 W	44.8 V	13.84 A	52.6 V	14.78 A	23.0%
	Bifacial Gain**						
	5%	651 W	44.8 V	14.53 A	52.6 V	15.52 A	24.1%
	10%	682 W	44.8 V	15.22 A	52.6 V	16.26 A	25.2%
		744 W	44.8 V	16.61 A	52.6 V	17.74 A	27.5%

* 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	30 A
Application Classification	Class A
Power Tolerance	0 ~ + 10 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: $\pm 5 \%$

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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)
CS6.1-72TB-590	446 W	41.2 V	10.82 A	48.7 V	11.63 A
CS6.1-72TB-595	450 W	41.4 V	10.87 A	48.9 V	11.68 A
CS6.1-72TB-600	454 W	41.6 V	10.91 A	49.0 V	11.73 A
CS6.1-72TB-605	458 W	41.8 V	10.95 A	49.2 V	11.77 A
CS6.1-72TB-610	461 W	42.0 V	10.99 A	49.4 V	11.82 A
CS6.1-72TB-615	465 W	42.2 V	11.03 A	49.6 V	11.87 A
CS6.1-72TB-620	469 W	42.4 V	11.07 A	49.8 V	11.92 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	144 [2 x (12 x 6)]
Dimensions	2382 × 1134 × 30 mm (93.8 × 44.6 × 1.18 in)
Weight	33.6 kg (74.1 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), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	720 pieces

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION





HiKu7 Mono PERC

585 W ~ 615 W

CS7L-585 | 590 | 595 | 600 | 605 | 610 | 615MS

MORE POWER

-  Module power up to 615 W
Module efficiency up to 21.7 %
-  Up to 3.5 % lower LCOE
Up to 5.7 % lower system cost
-  Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation
-  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*

25 Years Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%

*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
IEC62941 : 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

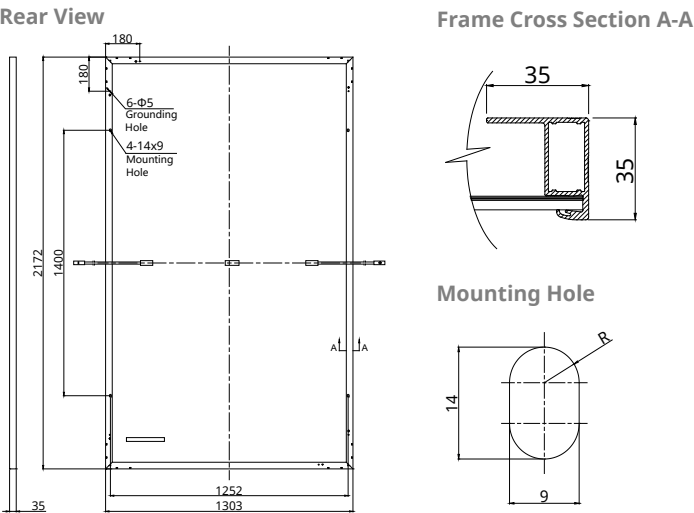
IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
UL 61730 / IEC 61701 / IEC 62716 / IEC 63126 Level1 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



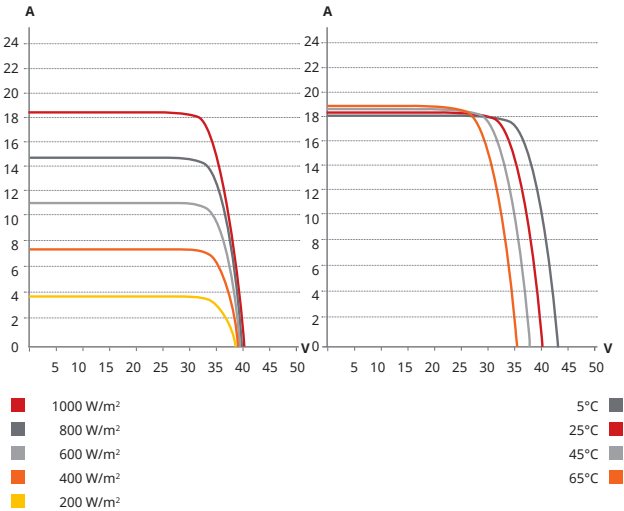
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ENGINEERING DRAWING (mm)



CS7L-590MS / I-V CURVES



ELECTRICAL DATA | STC*

CS7L	585MS	590MS	595MS	600MS	605MS	610MS	615MS
Nominal Max. Power (Pmax)	585 W	590 W	595 W	600 W	605 W	610 W	615 W
Opt. Operating Voltage (Vmp)	34.3 V	34.5 V	34.7 V	34.9 V	35.1 V	35.3 V	35.4 V
Opt. Operating Current (Imp)	17.06 A	17.11 A	17.15 A	17.20 A	17.25 A	17.29 A	17.38 A
Open Circuit Voltage (Voc)	40.7 V	40.9 V	41.1 V	41.3 V	41.5 V	41.7 V	41.9 V
Short Circuit Current (Isc)	18.32 A	18.37 A	18.42 A	18.47 A	18.52 A	18.57 A	18.62 A
Module Efficiency	20.7%	20.8%	21.0%	21.2%	21.4%	21.6%	21.7%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL)) or 1000V (IEC/UL))						
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	30 A						
Application Classification	Class A						
Power Tolerance	0 ~ + 10 W						

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

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	120 [2 x (10 x 6)]
Dimensions	2172 x 1303 x 35 mm (85.5 x 51.3 x 1.38 in)
Weight	30.9 kg (68.1 lbs)
Front Cover	3.2 mm tempered glass with anti-reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Connector	T6 or T4 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Per Pallet	31 pieces
Per Container (40' HQ)	558 pieces

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

ELECTRICAL DATA | NMOT*

CS7L	585MS	590MS	595MS	600MS	605MS	610MS	615MS
Nominal Max. Power (Pmax)	439 W	442 W	446 W	450 W	454 W	457 W	461 W
Opt. Operating Voltage (Vmp)	32.2 V	32.3 V	32.5 V	32.7 V	32.9 V	33.1 V	33.2 V
Opt. Operating Current (Imp)	13.64 A	13.70 A	13.73 A	13.77 A	13.80 A	13.83 A	13.90 A
Open Circuit Voltage (Voc)	38.5 V	38.7 V	38.8 V	39.0 V	39.2 V	39.4 V	39.6 V
Short Circuit Current (Isc)	14.77 A	14.80 A	14.85 A	14.89 A	14.93 A	14.97 A	15.01 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.

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

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PARTNER SECTION





HiKu7 Mono PERC

645 W ~ 675 W

CS7N-645 | 650 | 655 | 660 | 665 | 670 | 675MS

MORE POWER

-  Module power up to 675 W
Module efficiency up to 21.7 %
-  Up to 3.5 % lower LCOE
Up to 5.7 % lower system cost
-  Comprehensive LID / LeTID mitigation technology, up to 50% lower degradation
-  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*

25 Years Linear Power Performance Warranty*

1st year power degradation no more than 2%
Subsequent annual power degradation no more than 0.55%

*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
IEC62941 : 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way

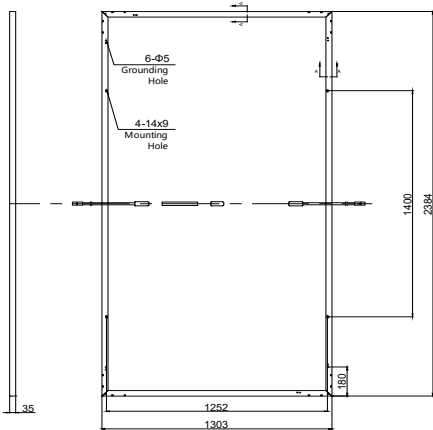


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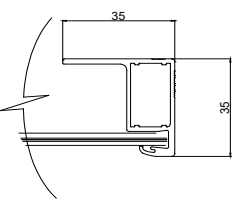
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ENGINEERING DRAWING (mm)

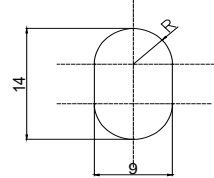
Rear View



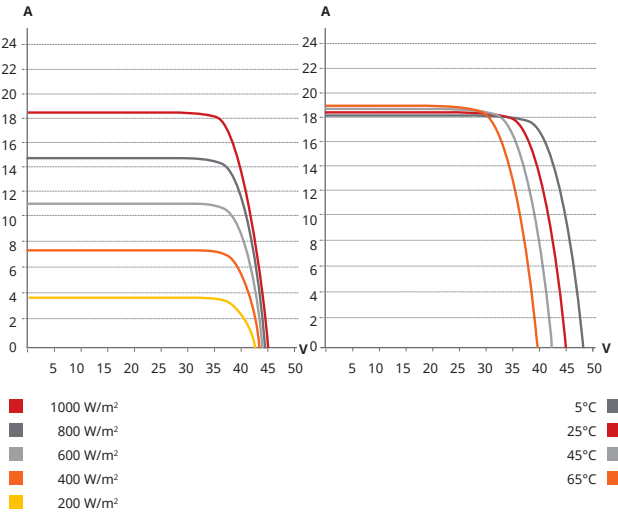
Frame Cross Section A-A



Mounting Hole



CS7N-650MS / I-V CURVES



ELECTRICAL DATA | STC*

CS7N	645MS	650MS	655MS	660MS	665MS	670MS	675MS
Nominal Max. Power (Pmax)	645 W	650 W	655 W	660 W	665 W	670 W	675 W
Opt. Operating Voltage (Vmp)	37.7 V	37.9 V	38.1 V	38.3 V	38.5 V	38.7 V	38.9 V
Opt. Operating Current (Imp)	17.11 A	17.16 A	17.20 A	17.24 A	17.28 A	17.32 A	17.36 A
Open Circuit Voltage (Voc)	44.8 V	45.0 V	45.2 V	45.4 V	45.6 V	45.8 V	46.0 V
Short Circuit Current (Isc)	18.35 A	18.39 A	18.43 A	18.47 A	18.51 A	18.55 A	18.59 A
Module Efficiency	20.8%	20.9%	21.1%	21.2%	21.4%	21.6%	21.7%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)						
Module Fire Performance	TYPE 1 (UL 61730 1500V) or TYPE 2 (UL 61730 1000V) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	30 A						
Application Classification	Class A						
Power Tolerance	0 ~ + 10 W						

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

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	33.9 kg (74.7 lbs)
Front Cover	3.2 mm tempered glass with anti-ref- lective coating
Frame	Anodized aluminium alloy, crossbar enhanced
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or T4 or MC4-EVO2 or MC4-EVO2A
Per Pallet	31 pieces
Per Container (40' HQ)	558 pieces

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

ELECTRICAL DATA | NMOT*

CS7N	645MS	650MS	655MS	660MS	665MS	670MS	675MS
Nominal Max. Power (Pmax)	484 W	487 W	491 W	495 W	499 W	502 W	506 W
Opt. Operating Voltage (Vmp)	35.3 V	35.5 V	35.7 V	35.9 V	36.1 V	36.3 V	36.5 V
Opt. Operating Current (Imp)	13.72 A	13.74 A	13.76 A	13.79 A	13.83 A	13.85 A	13.88 A
Open Circuit Voltage (Voc)	42.3 V	42.5 V	42.7 V	42.9 V	43.1 V	43.3 V	43.5 V
Short Circuit Current (Isc)	14.80 A	14.83 A	14.86 A	14.89 A	14.93 A	14.96 A	14.99 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.							

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

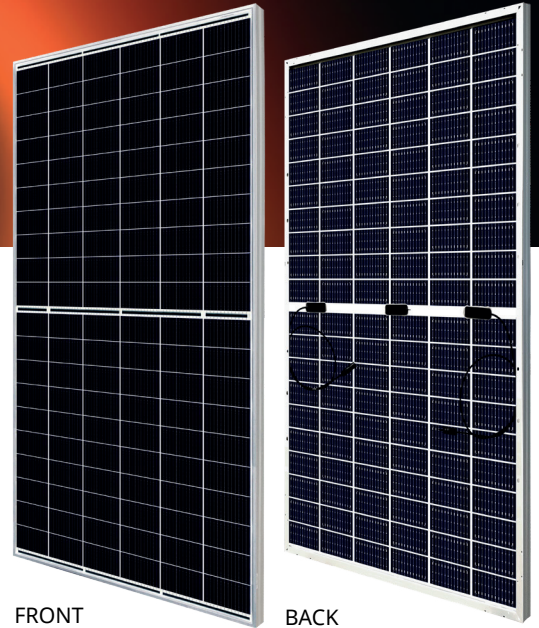
PARTNER SECTION



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CSI Solar Co., Ltd.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com



FRONT

BACK

BiHiKu7

BIFACIAL MONO PERC

580 W ~ 610 W

CS7L-580 | 585 | 590 | 595 | 600 | 605 | 610MB-AG

MORE POWER

-  Module power up to 610 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*



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

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
IEC62941 : 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 63126 Level1 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



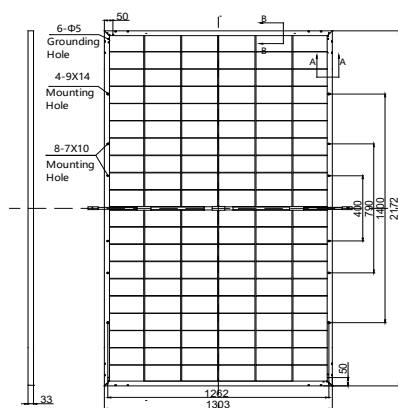
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Rear View



Frame Cross Section

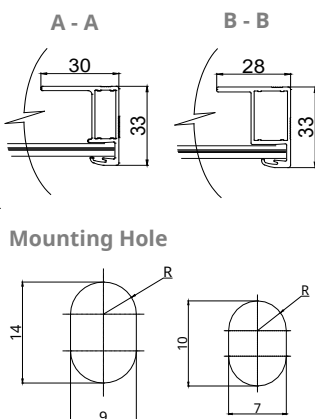


Figure 1 consists of two graphs, A and B, showing the dependence of the maximum temperature of the surface of the heat exchanger (T_{max}) on the heat flux (Q) for different ambient temperatures (T_{amb}).

Graph A shows the results for $T_{amb} = 5^\circ\text{C}$. The y-axis represents T_{max} in $^\circ\text{C}$ (ranging from 0 to 24), and the x-axis represents Q in W/m^2 (ranging from 0 to 50). Five curves are plotted for different heat fluxes: 1000 W/m^2 (red), 800 W/m^2 (dark grey), 600 W/m^2 (light grey), 400 W/m^2 (orange), and 200 W/m^2 (yellow). The curves show that T_{max} increases with Q and is higher for higher T_{amb} .

Graph B shows the results for $T_{amb} = 25^\circ\text{C}$. The y-axis represents T_{max} in $^\circ\text{C}$ (ranging from 0 to 24), and the x-axis represents Q in W/m^2 (ranging from 0 to 50). The same five heat fluxes are plotted. The curves show that T_{max} increases with Q and is higher for higher T_{amb} .

Legend for both graphs:

- 1000 W/m^2 (Red)
- 800 W/m^2 (Dark Grey)
- 600 W/m^2 (Light Grey)
- 400 W/m^2 (Orange)
- 200 W/m^2 (Yellow)

Legend for ambient temperature (T_{amb}):

- 5 $^\circ\text{C}$ (Red)
- 25 $^\circ\text{C}$ (Dark Grey)
- 45 $^\circ\text{C}$ (Light Grey)
- 65 $^\circ\text{C}$ (Orange)

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS7L-580MB-AG		580 W	34.1 V	17.02 A	40.5 V	18.27 A	20.5%
Bifacial Gain**	5%	609 W	34.1 V	17.87 A	40.5 V	19.18 A	21.5%
	10%	638 W	34.1 V	18.72 A	40.5 V	20.10 A	22.5%
	20%	696 W	34.1 V	20.42 A	40.5 V	21.92 A	24.6%
CS7L-585MB-AG		585 W	34.3 V	17.06 A	40.7 V	18.32 A	20.7%
Bifacial Gain**	5%	614 W	34.3 V	17.91 A	40.7 V	19.24 A	21.7%
	10%	644 W	34.3 V	18.78 A	40.7 V	20.15 A	22.8%
	20%	702 W	34.3 V	20.47 A	40.7 V	21.98 A	24.8%
CS7L-590MB-AG		590 W	34.5 V	17.11 A	40.9 V	18.37 A	20.8%
Bifacial Gain**	5%	620 W	34.5 V	17.98 A	40.9 V	19.29 A	21.9%
	10%	649 W	34.5 V	18.82 A	40.9 V	20.21 A	22.9%
	20%	708 W	34.5 V	20.53 A	40.9 V	22.04 A	25.0%
CS7L-595MB-AG		595 W	34.7 V	17.15 A	41.1 V	18.42 A	21.0%
Bifacial Gain**	5%	625 W	34.7 V	18.02 A	41.1 V	19.34 A	22.1%
	10%	655 W	34.7 V	18.88 A	41.1 V	20.26 A	23.1%
	20%	714 W	34.7 V	20.58 A	41.1 V	22.10 A	25.2%
CS7L-600MB-AG		600 W	34.9 V	17.20 A	41.3 V	18.47 A	21.2%
Bifacial Gain**	5%	630 W	34.9 V	18.06 A	41.3 V	19.39 A	22.3%
	10%	660 W	34.9 V	18.92 A	41.3 V	20.32 A	23.3%
	20%	720 W	34.9 V	20.64 A	41.3 V	22.16 A	25.4%
CS7L-605MB-AG		605 W	35.1 V	17.25 A	41.5 V	18.52 A	21.4%
Bifacial Gain**	5%	635 W	35.1 V	18.11 A	41.5 V	19.45 A	22.4%
	10%	666 W	35.1 V	18.98 A	41.5 V	20.37 A	23.5%
	20%	726 W	35.1 V	20.70 A	41.5 V	22.22 A	25.7%
CS7L-610MB-AG		610 W	35.3 V	17.29 A	41.7 V	18.57 A	21.6%
Bifacial Gain**	5%	641 W	35.3 V	18.15 A	41.7 V	19.50 A	22.6%
	10%	671 W	35.3 V	19.02 A	41.7 V	20.43 A	23.7%
	20%	732 W	35.3 V	20.75 A	41.7 V	22.28 A	25.9%

** 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.

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 %

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.

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7L-580MB-AG	435 W	32.0 V	13.60 A	38.3 V	14.73 A
CS7L-585MB-AG	439 W	32.2 V	13.64 A	38.5 V	14.77 A
CS7L-590MB-AG	442 W	32.3 V	13.70 A	38.7 V	14.80 A
CS7L-595MB-AG	446 W	32.5 V	13.73 A	38.8 V	14.85 A
CS7L-600MB-AG	450 W	32.7 V	13.77 A	39.0 V	14.89 A
CS7L-605MB-AG	454 W	32.9 V	13.80 A	39.2 V	14.93 A
CS7L-610MB-AG	457 W	33.1 V	13.83 A	39.4 V	14.97 A

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Cell Arrangement	120 [2 x (10 x 6)]
Dimensions	2172 x 1303 x 33 mm (85.5 x 51.3 x 1.30 in)
Weight	34.5 kg (76.1 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 mm² (IEC), 10 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 528 pieces (only for US & Canada)

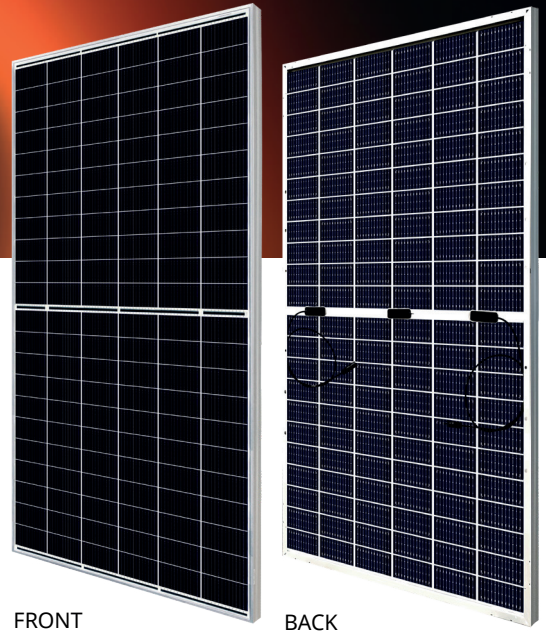
* For detailed information, please contact your local Canadian Solar sales and technical representatives.

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





FRONT

BACK

BiHiKu7

BIFACIAL MONO PERC

640 W ~ 670 W

CS7N-640 | 645 | 650 | 655 | 660 | 665 | 670MB-AG

MORE POWER

-  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*

 **CanadianSolar**

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

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
IEC62941 : 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 63126 Level1 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / 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.

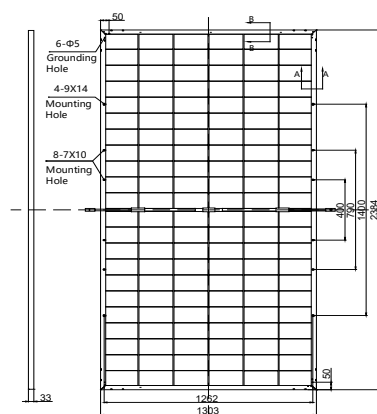
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 22 years, it has successfully delivered over 100 GW of premium-quality solar modules across the world.

CSI Solar Co., Ltd.

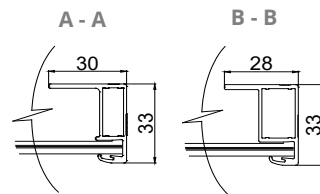
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ENGINEERING DRAWING (mm)

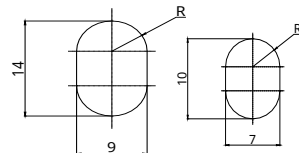
Rear View



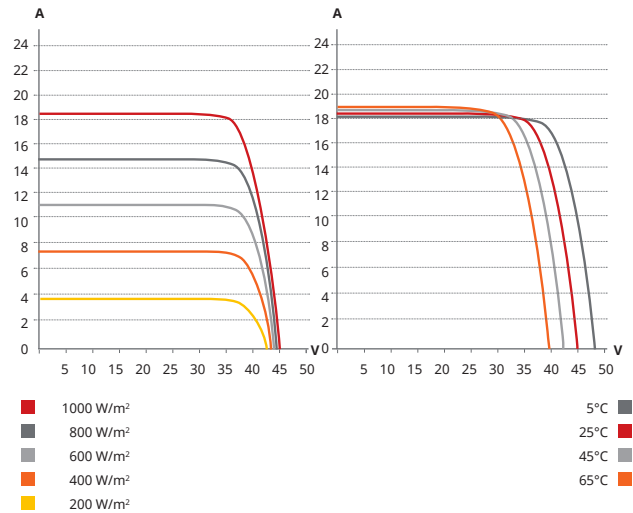
Frame Cross Section



Mounting Hole



CS7N-650MB-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-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 = $P_{max, rear} / P_{max, front}$, 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. 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.

ELECTRICAL DATA | NMOT*

	Nominal Max. 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 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)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 495 pieces (only for US & Canada)

* 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 $\pm$ 3°C

PARTNER SECTION

CSI Solar Co., Ltd.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

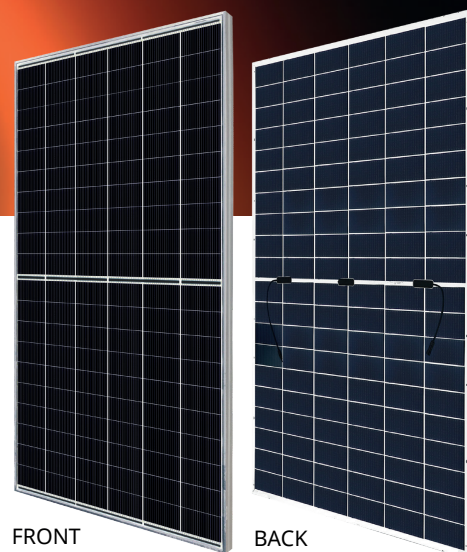


TOPBiHiKu7

N-type Bifacial TOPCon Technology

615 W ~ 645 W

CS7L-615 | 620 | 625 | 630 | 635 | 640 | 645TB-AG



MORE POWER



Module power up to 645 W
Module efficiency up to 22.8 %



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): -0.29%/°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
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



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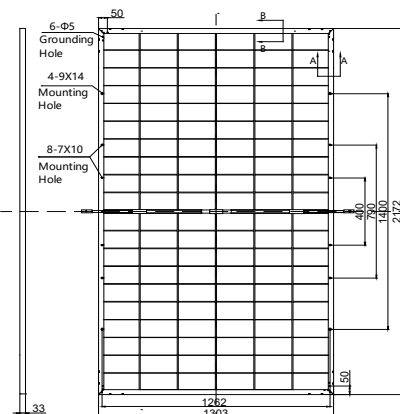
* For detailed information, please refer to the Installation Manual.

CSI Solar Co., Ltd.

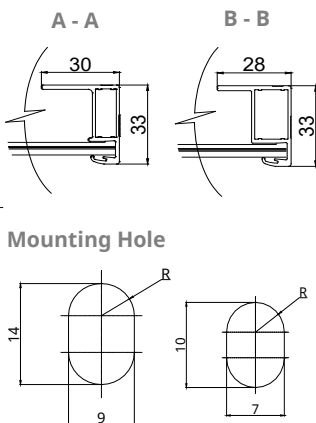
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Rear View



Frame Cross Section



A

B

■ 1000 W/m²
 ■ 800 W/m²
 ■ 600 W/m²
 ■ 400 W/m²
 ■ 200 W/m²

5°C
 25°C
 45°C
 65°C

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS7L-615TB-AG		615 W	35.5 V	17.33 A	42.7 V	18.26 A	21.7%
Bifacial Gain**	5%	646 W	35.5 V	18.21 A	42.7 V	19.17 A	22.8%
	10%	677 W	35.5 V	19.08 A	42.7 V	20.91 A	23.9%
	20%	738 W	35.5 V	20.80 A	42.7 V	21.99 A	26.1%
CS7L-620TB-AG		620 W	35.7 V	17.37 A	42.9 V	18.31 A	21.9%
Bifacial Gain**	5%	651 W	35.7 V	18.24 A	42.9 V	19.23 A	23.0%
	10%	682 W	35.7 V	19.11 A	42.9 V	20.14 A	24.1%
	20%	744 W	35.7 V	20.84 A	42.9 V	21.97 A	26.3%
CS7L-625TB-AG		625 W	35.9 V	17.41 A	43.1 V	18.36 A	22.1%
Bifacial Gain**	5%	656 W	35.9 V	18.28 A	43.1 V	19.28 A	23.2%
	10%	688 W	35.9 V	19.17 A	43.1 V	20.20 A	24.3%
	20%	750 W	35.9 V	20.89 A	43.1 V	22.03 A	26.5%
CS7L-630TB-AG		630 W	36.1 V	17.46 A	43.3 V	18.41 A	22.3%
Bifacial Gain**	5%	662 W	36.1 V	18.34 A	43.3 V	19.33 A	23.4%
	10%	693 W	36.1 V	19.21 A	43.3 V	20.25 A	24.5%
	20%	756 W	36.1 V	20.95 A	43.3 V	22.09 A	26.7%
CS7L-635TB-AG		635 W	36.3 V	17.50 A	43.5 V	18.46 A	22.4%
Bifacial Gain**	5%	667 W	36.3 V	18.38 A	43.5 V	19.38 A	23.6%
	10%	699 W	36.3 V	20.21 A	43.5 V	20.31 A	24.7%
	20%	762 W	36.3 V	21.00 A	43.5 V	22.15 A	26.9%
CS7L-640TB-AG		640 W	36.5 V	17.54 A	43.7 V	18.51 A	22.6%
Bifacial Gain**	5%	672 W	36.5 V	18.42 A	43.7 V	19.44 A	23.7%
	10%	704 W	36.5 V	20.26 A	43.7 V	20.36 A	24.9%
	20%	768 W	36.5 V	24.31 A	43.7 V	22.21 A	27.1%
CS7L-645TB-AG		645 W	36.7 V	17.58 A	43.9 V	18.56 A	22.8%
Bifacial Gain**	5%	677 W	36.7 V	18.46 A	43.9 V	19.49 A	23.9%
	10%	710 W	36.7 V	19.34 A	43.9 V	20.42 A	25.1%
	20%	774 W	36.7 V	21.10 A	43.9 V	22.27 A	27.3%

**** 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.

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*	80 %

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.

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Oper- ating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7L-615TB-AG	465 W	33.6 V	13.86 A	40.4 V	14.72 A
CS7L-620TB-AG	469 W	33.8 V	13.89 A	40.6 V	14.77 A
CS7L-625TB-AG	473 W	33.9 V	13.93 A	40.8 V	14.81 A
CS7L-630TB-AG	476 W	34.1 V	13.96 A	41.0 V	14.85 A
CS7L-635TB-AG	480 W	34.3 V	13.99 A	41.2 V	14.89 A
CS7L-640TB-AG	484 W	34.5 V	14.03 A	41.4 V	14.93 A
CS7L-645TB-AG	488 W	34.7 V	14.06 A	41.6 V	14.97 A

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
Cell Arrangement	120 [2 x (10 x 6)]
Dimensions	2172 × 1303 × 33 mm (85.5 × 51.3 × 1.30 in)
Weight	34.5 kg (76.1 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), 12 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 528 pieces (only for US & Canada)

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

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION



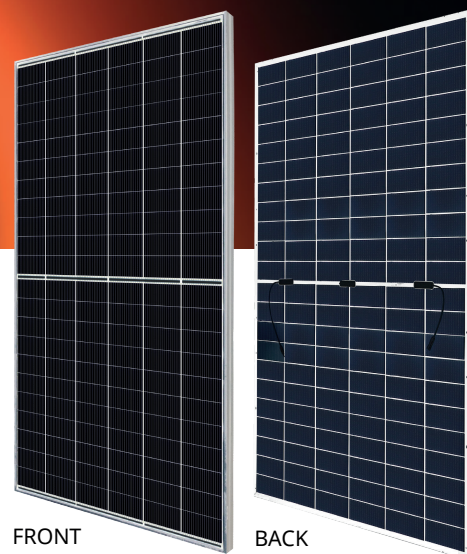


TOPBiHiKu7

N-type Bifacial TOPCon Technology

685 W ~ 715 W

CS7N-685 | 690 | 695 | 700 | 705 | 710 | 715TB-AG



MORE POWER



Module power up to 715 W
Module efficiency up to 23.0 %



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): -0.29%/°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
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / CGC
CEC listed (US California) / FSEC (US Florida)
UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68
UNI 9177 Reaction to Fire: Class 1 / Take-e-way



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in which the products will be used.



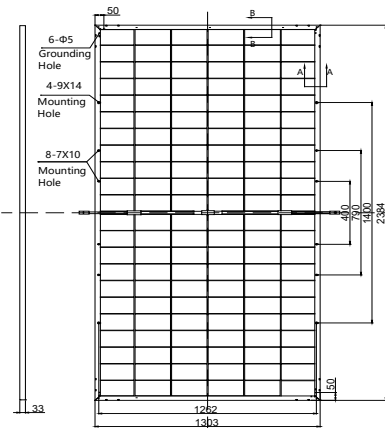
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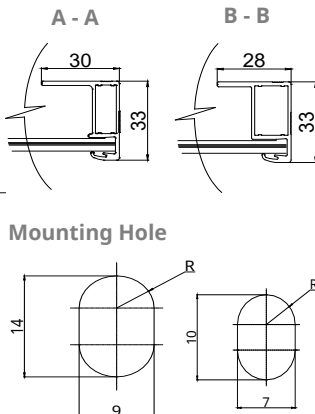
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ENGINEERING DRAWING (mm)

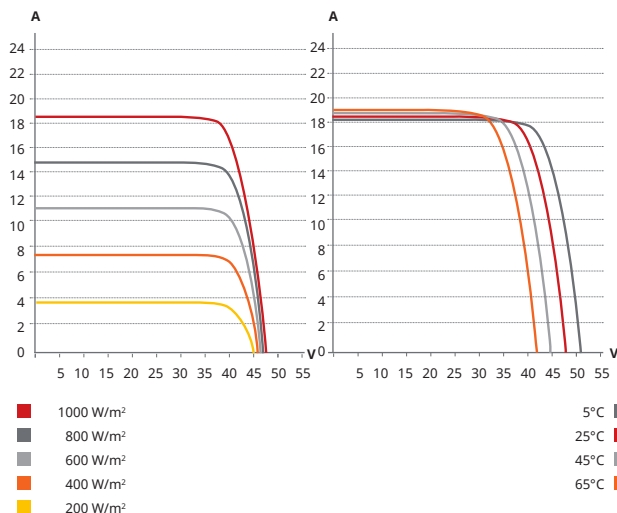
Rear View



Frame Cross Section



CS7N-695TB-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-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%
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%

* 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 | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS7N-685TB-AG	518 W	37.2 V	13.91 A	44.8 V	14.79 A
CS7N-690TB-AG	522 W	37.4 V	13.94 A	45.0 V	14.83 A
CS7N-695TB-AG	526 W	37.6 V	13.97 A	45.2 V	14.87 A
CS7N-700TB-AG	529 W	37.8 V	14.00 A	45.4 V	14.91 A
CS7N-705TB-AG	533 W	38.0 V	14.03 A	45.5 V	14.95 A
CS7N-710TB-AG	537 W	38.2 V	14.06 A	45.7 V	14.99 A
CS7N-715TB-AG	541 W	38.4 V	14.09 A	45.9 V	15.03 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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	410 mm (16.1 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 495 pieces (only for US & Canada)

* 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 ~ + 10 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: $\pm 5\%$

* 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. 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.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	41 $\pm$ 3°C

PARTNER SECTION

CSI Solar Co., Ltd.

199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com



Precisely Right.

ISO/IEC 17065:2012
15-CPR-002

Certificado de Conformidad de Producto

Product Certificate of Conformity

Certificado No.
Certificate No.

PR1-100577V3

Informe No.
Report No.

BSP-0204

Nombre y dirección del titular
Holder's name and address

Canadian Solar (Brasil)
Av. Roque Petroni Junior 999, 4º andar, Vila Gertrudes, São Paulo (SP), Brasil

Nombre y dirección de la fábrica(s)
Name and address of the factory(ies)

Anexo 1
Annex 1

Origen
Origin

China, Tailandia, Vietnam
China, Thailand, Vietnam

Producto
Product

Paneles Fotovoltaicos
Photovoltaic Module

Referencia(s)
Model(s)

Anexo 2
Annex 2

Marca
Trademark



Características principales
Main characteristics

Anexo 2
Annex 2

Evaluable de acuerdo con
Assessed according to

Resolución 90708: 2013. Ministerio de Minas y Energía de Colombia, Reglamento técnico de Instalaciones eléctricas. RETIE, artículo 20 y 20.22.
(IEC 61215:2016, Módulos fotovoltaicos (FV) de silicio cristalino para uso terrestre. Calificación del diseño y homologación).

*Resolution 90708:2013, Mines and Energy Minister, Colombian Mandatory Regulation related to Product electrical safety, article 20 and 20. 22
(IEC 61215:2016, Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval).*

Esquema de Certificación
Certification type scheme

Esquema Tipo 5
Type 5 scheme

Fecha de emisión / *Valid from*

07/09/2018

Fecha de renovación / *Renewal*

14/10/2021

Fecha de actualización / *Last update*

28/04/2023

Vigente hasta / *Valid until*

06/09/2024

Autorizado Por
Authorized by

SERGIO AYALA
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TÜV Rheinland Colombia S.A.S.
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(+57 1) 7460980



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15-CPR-002

Certificado de Conformidad de Producto

Product Certificate of Conformity

Anexo 1 / Annex 1

Certificado No. / Certificate No. PR1-100577V3

Nombre y dirección de la fábrica(s)
Holder's name and address**Canadian Solar Manufacturing (Changshu), Inc.**

Changsheng Road, Yang Yuan, Xin Zhuang Town, Changshu, Jiangsu Province, China

Canadian Solar Manufacturing (Luoyang), Inc.

1. No. 2 Yingzhou Road, Luolong High Technological Park, Luoyang City, Henan Province, China.

2. Cross of Guanlin Avenue and Wenzhong Avenue, Luoyang City 471023 Henan China

Canadian Solar Sunenergy (Suzhou) Co., Ltd

No. 348 Lushan Road, SND, Suzhou, Jiangsu Province 215129, P.R. China

Canadian Solar Manufacturing (Thailand) Co., Ltd.

168/2 Moo 4 Tambol bowin, Amphoe Sriracha, Chonburi, Tailandia

Canadian Solar Manufacturing Vietnam Company Limited

RBF D11, No. 5, East West Road, VSIP Haiphong Township, Industrial & Service park, Duong Quan Commune, Thuy Nguyen District, Hai Phong City 183000, Vietnam

Canadian Solar Manufacturing (CSI Cell Co., Ltd.)

No 199 Lushan road, Suzhou New District, Suzhou City, 215129 Jiangsu, P.R. China

Canadian Solar Manufacturing (CSI Modules Da Feng Co., Ltd.)

Nº 5, Yong Sheng Road, Economic Development Zone, Da Feng District, Yan Cheng City, 224100 Jiangsu, P.R. China

Canadian Solar Sunenergy (Jiaxing) Co., Ltd

No. 1191, Bazi Road, Gaozhao Street, Xiuzhou District, Jiaxing City, 314031 Zhejiang P. R. China

Canadian Solar Sunenergy (SuQian) Co., Ltd

177#, Tongda Avenue, Suqian Economic, Development Zone, 223800, Jiangsu, P.R. China

Fecha de emisión / Valid from	07/09/2018
Fecha de renovación / Renewal	14/10/2021
Fecha de actualización / Last update	28/04/2023
Vigente hasta / Valid until	06/09/2024

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Certificado de Conformidad de Producto

Product Certificate of Conformity

Anexo 2 / Annex 2

Certificado No. / Certificate No. PR1-100577V3

Referencias y características principales
Models(s) and main characteristics

Referencia / Model	Potencia / Power (W)	Tensión / Voltaje (V)	No Celdas/ Cells arrangement
CS3W-xxxP	380-460	1000-1500	144
CS3W-xxxPB-AG	380-450	1000-1500	144
CS3W-xxxMS	420-470	1000-1500	144
CS3L-xxxMS	350-390	1000-1500	120
CS3W-xxxMB-AG	400-460	1000-1500	144
CS3Y-xxxP	435-485	1000-1500	156
CS3Y-xxxMS	475-500	1000-1500	156
CS3N-xxxMS	400-425	1000-1500	132
CS3Y-xxxMB-AG	465-490	1000-1500	156
CS3Y-xxxPB-AG	430-480	1000-1500	156
CS6R-xxxT	400-455	1000-1500	144
CS6W-xxxT	540-605	1000-1500	144
CS6R-xxxMS	380-420	1000-1500	108
CS6W-xxxMS	530-555	1000-1500	144
CS6W-xxxTB-AG	540-600	1000-1500	144
CS6W-xxxMB-AG	520-550	1000-1500	144
CS7L-xxxMS	575-620	1000-1500	120
CS7N-xxxMS	635-680	1000-1500	132
CS7N-xxxMB-AG	630-670	1000-1500	132
CS7L-xxxMB-AG	570-610	1000-1500	120
CS7L-xxxMS-R	575-620	1000-1500	120
CS7L-xxxTB-AG	595-650	1000-1500	120
CS7N-xxxTB-AG	655-720	1000-1500	132
Potencias en pasos de 5W / Power in steps of 5W			

Nota: Las letras xxx en los modelos representan la potencia, Estas potencias son generadas por el módulo con irradiancia de 1000 W/m², una temperatura modular de 25°C y una distribución espectral de 1,5 AM.

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