

TOPHiKu6 (All-Black)

N-type TOPCon Technology

435 W ~ 465 W

CS6.2-48TD-435 | 440 | 445 | 450 | 455 | 460 | 465

MORE POWER



Module power up to 465 W
Module efficiency up to 23.3 %



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



Tested up to ice ball of 35 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



Heavy snow load up to 6000 Pa,
wind load up to 4000 Pa*



Industry Leading 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%

*Subject to the terms and conditions contained in the applicable Canadian Solar Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

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



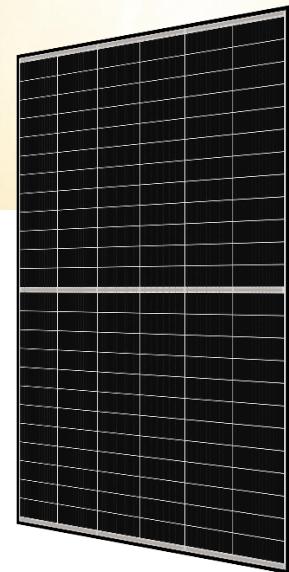
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CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 23 years, it has successfully delivered over 133 GW of premium-quality solar modules across the world.

* 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



TOPHiKu6

N-type TOPCon Technology

440 W ~ 470 W

CS6.2-48TD-440 | 445 | 450 | 455 | 460 | 465 | 470

MORE POWER



Module power up to 470 W
Module efficiency up to 23.5 %



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



Tested up to ice ball of 35 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



Heavy snow load up to 6000 Pa,
wind load up to 4000 Pa*



Industry Leading 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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PRODUCT CERTIFICATES*

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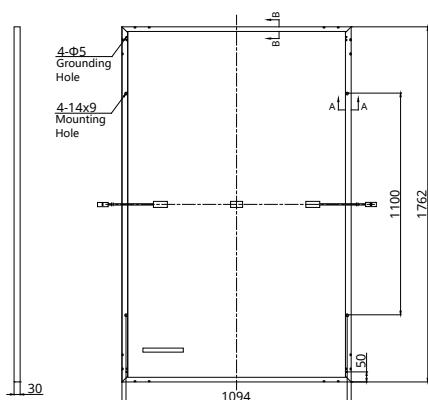
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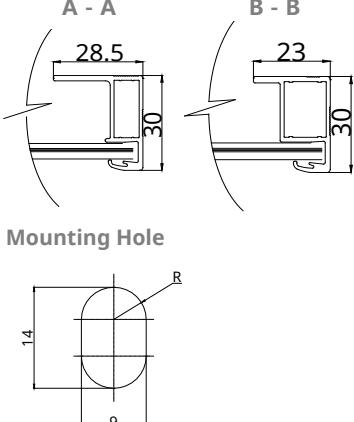
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ENGINEERING DRAWING (mm)

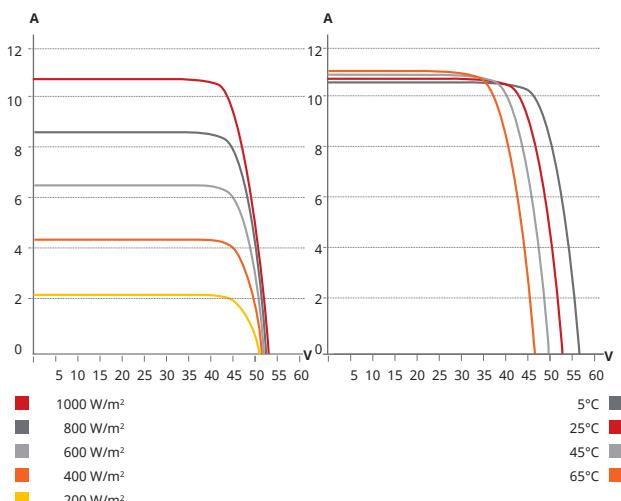
Rear View



Frame Cross Section



CS6.2-48TD-455 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.2-48TD	440	445	450	455	460	465	470
Nominal Max. Power (Pmax)	440 W	445 W	450 W	455 W	460 W	465 W	470 W
Opt. Operating Voltage (Vmp)	44.4 V	44.6 V	44.8 V	45.0 V	45.2 V	45.4 V	45.6 V
Opt. Operating Current (Imp)	9.91 A	9.98 A	10.05 A	10.12 A	10.18 A	10.25 A	10.32 A
Open Circuit Voltage (Voc)	52.5 V	52.7 V	52.9 V	53.1 V	53.3 V	53.5 V	53.7 V
Short Circuit Current (Isc)	10.54 A	10.61 A	10.68 A	10.75 A	10.82 A	10.89 A	10.96 A
Module Efficiency	22.0%	22.3%	22.5%	22.8%	23.0%	23.3%	23.5%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL)						
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	20 A						
Protection Class	Class II						
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*

CS6.2-48TD	440	445	450	455	460	465	470
Nominal Max. Power (Pmax)	333 W	337 W	340 W	344 W	348 W	352 W	356 W
Opt. Operating Voltage (Vmp)	42.0 V	42.2 V	42.4 V	42.5 V	42.7 V	42.9 V	43.1 V
Opt. Operating Current (Imp)	7.93 A	7.98 A	8.04 A	8.09 A	8.14 A	8.20 A	8.25 A
Open Circuit Voltage (Voc)	49.7 V	49.9 V	50.1 V	50.3 V	50.5 V	50.7 V	50.8 V
Short Circuit Current (Isc)	8.49 A	8.55 A	8.60 A	8.66 A	8.72 A	8.77 A	8.83 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	144 [2 x (12 x 6)]
Dimensions	1762 x 1134 x 30 mm (69.4 x 44.6 x 1.18 in)
Weight	24.6 kg (54.2 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 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1100 mm (43.3 in)*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	936 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)	0.045 % / °C
Nominal Module Operating Temperature	41 ± 3°C

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PARTNER SECTION

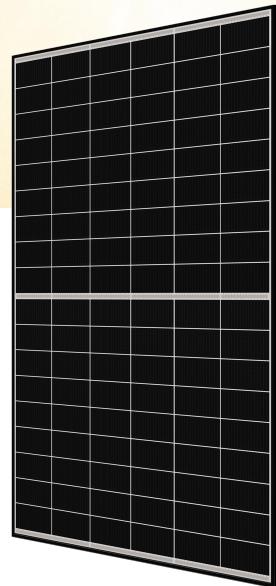
NEW

TOPHiKu6

N-type TOPCon Technology

490 W ~ 520 W

CS6.2-54TM-490 | 495 | 500 | 505 | 510 | 515 | 520



MORE POWER



Module power up to 520 W
Module efficiency up to 23.4 %



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



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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



Industry Leading 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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MANAGEMENT SYSTEM CERTIFICATES*

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IEC62941: 2019 / Photovoltaic module manufacturing quality system

PRODUCT CERTIFICATES*

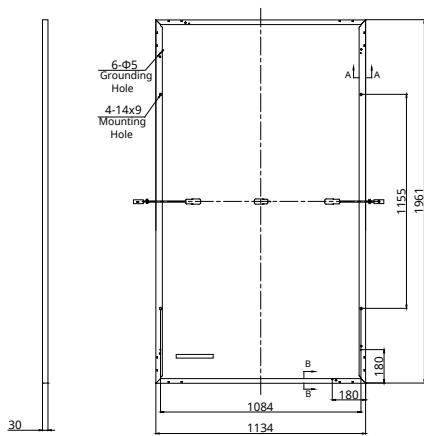
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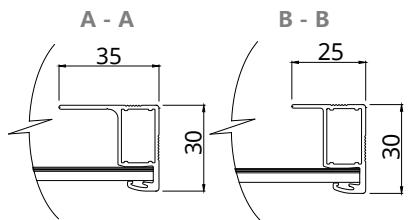
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ENGINEERING DRAWING (mm)

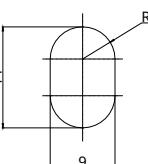
Rear View



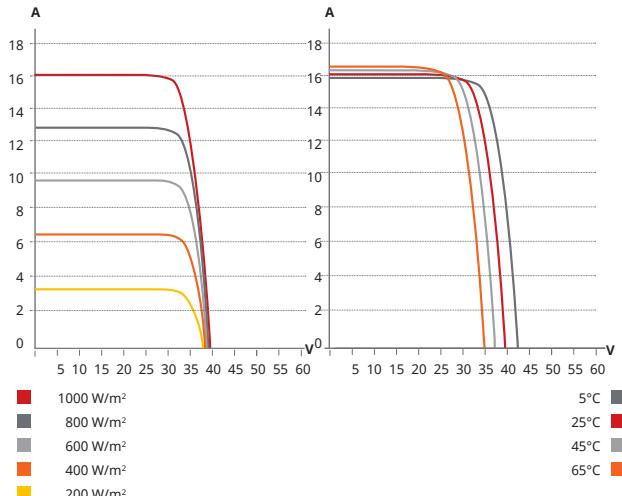
Frame Cross Section



Mounting Hole



CS6.2-54TM-505 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.2-54TM	490	495	500	505	510	515	520
Nominal Max. Power (Pmax)	490 W	495 W	500 W	505 W	510 W	515 W	520 W
Opt. Operating Voltage (Vmp)	33.0 V	33.2 V	33.4 V	33.6 V	33.8 V	34.0 V	34.2 V
Opt. Operating Current (Imp)	14.85 A	14.91 A	14.98 A	15.04 A	15.10 A	15.16 A	15.22 A
Open Circuit Voltage (Voc)	39.2 V	39.4 V	39.6 V	39.8 V	40.0 V	40.2 V	40.4 V
Short Circuit Current (Isc)	15.86 A	15.91 A	16.00 A	16.05 A	16.10 A	16.15 A	16.20 A
Module Efficiency	22.0%	22.3%	22.5%	22.7%	22.9%	23.2%	23.4%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (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						
Protection Class	Class II						
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*

CS6.2-54TM	490	495	500	505	510	515	520
Nominal Max. Power (Pmax)	371 W	374 W	378 W	382 W	386 W	390 W	393 W
Opt. Operating Voltage (Vmp)	31.2 V	31.4 V	31.6 V	31.8 V	32.0 V	32.1 V	32.3 V
Opt. Operating Current (Imp)	11.88 A	11.93 A	11.98 A	12.03 A	12.07 A	12.12 A	12.17 A
Open Circuit Voltage (Voc)	37.1 V	37.3 V	37.5 V	37.7 V	37.9 V	38.1 V	38.3 V
Short Circuit Current (Isc)	12.78 A	12.82 A	12.89 A	12.93 A	12.97 A	13.01 A	13.05 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	108 [2 x (9 x 6)]
Dimensions	1961 x 1134 x 30 mm (77.2 x 44.6 x 1.18 in)
Weight	23.3 kg (51.4 lbs)
Front Glass	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)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	864 pieces

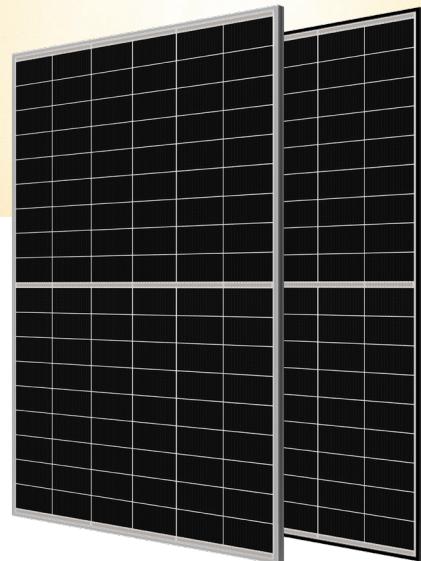
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TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.045 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

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TOPHiKu6

N-type TOPCon Technology

445 W ~ 470 W

CS6.1-54TD-445 | 450 | 455 | 460 | 465 | 470

MORE POWER



Module power up to 470 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%/°C,
increases energy yield in hot climate



Lower LCOE & system cost

*Black frame product can be provided upon request.



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.

MORE RELIABLE



Tested up to ice ball of 25 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
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PRODUCT CERTIFICATES*

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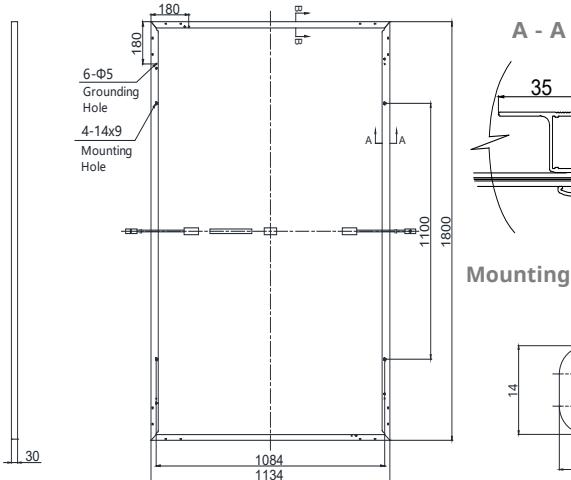


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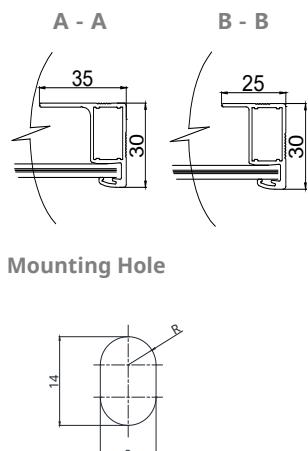
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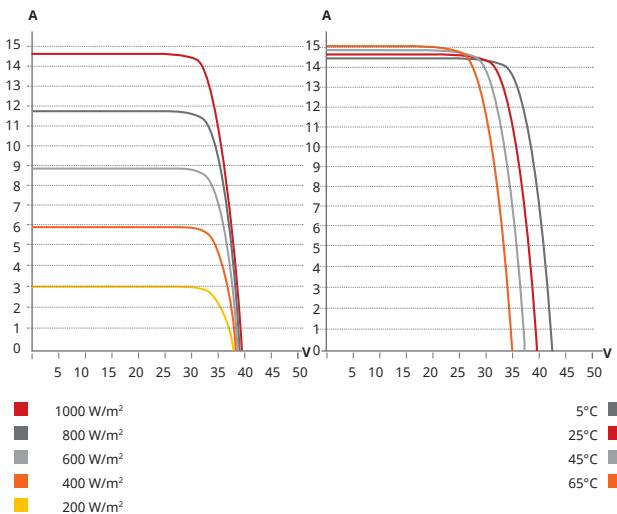
Rear View



Frame Cross Section



Mounting Hole



ELECTRICAL DATA | STC*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	445 W	450 W	455 W	460 W	465 W	470 W
Opt. Operating Voltage (Vmp)	32.8 V	33.0 V	33.2 V	33.4 V	33.6 V	33.8 V
Opt. Operating Current (Imp)	13.59 A	13.66 A	13.72 A	13.78 A	13.85 A	13.91 A
Open Circuit Voltage (Voc)	38.7 V	38.9 V	39.1 V	39.3 V	39.5 V	39.7 V
Short Circuit Current (Isc)	14.48 A	14.55 A	14.61 A	14.69 A	14.77 A	14.86 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL)					
Module Fire Performance	TYPE 38 (UL 61730) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Protection Class	Class II					
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	108 [2 X (9 X 6)]
Dimensions	1800 x 1134 x 30 mm (70.9 x 44.6 x 1.18 in)
Weight	22.7 kg (50.0 lbs)
Front Glass	1.6 mm heat strengthened glass with anti-reflective coating
Back Glass	1.6 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1150 mm (45.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	840 pieces

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

ELECTRICAL DATA | NMOT*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	337 W	340 W	344 W	348 W	352 W	355 W
Opt. Operating Voltage (Vmp)	31.0 V	31.2 V	31.4 V	31.6 V	31.8 V	32.0 V
Opt. Operating Current (Imp)	10.85 A	10.91 A	10.96 A	11.02 A	11.07 A	11.12 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	11.68 A	11.73 A	11.78 A	11.85 A	11.91 A	11.98 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.

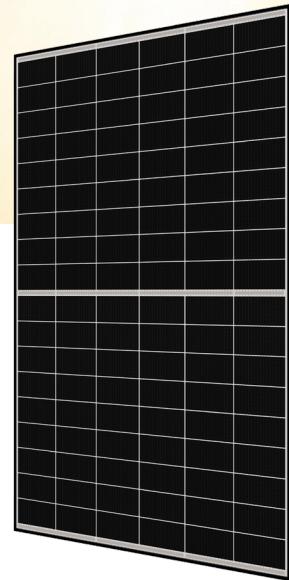
TEMPERATURE CHARACTERISTICS

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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N-type TOPCon Technology

445 W ~ 470 W

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MORE POWER



Module power up to 470 W
Module efficiency up to 23.0 %



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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



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according to IEC 61215 standard



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



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and Workmanship*



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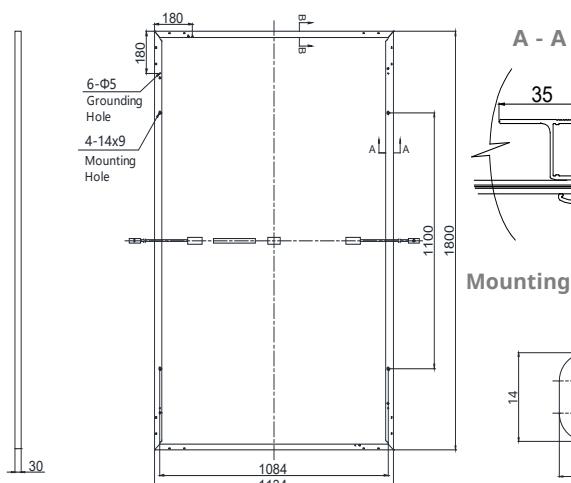


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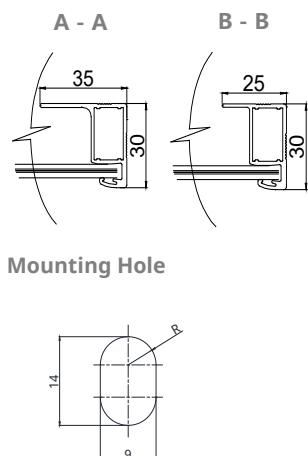
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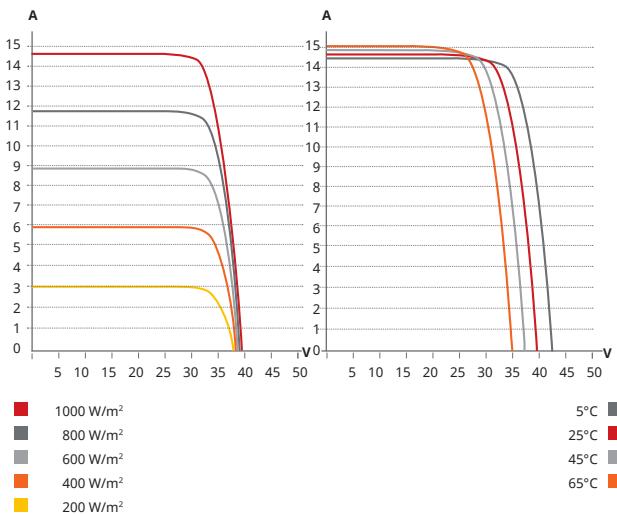
Rear View



Frame Cross Section



Mounting Hole



ELECTRICAL DATA | STC*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	445 W	450 W	455 W	460 W	465 W	470 W
Opt. Operating Voltage (Vmp)	32.8 V	33.0 V	33.2 V	33.4 V	33.6 V	33.8 V
Opt. Operating Current (Imp)	13.59 A	13.66 A	13.72 A	13.78 A	13.85 A	13.91 A
Open Circuit Voltage (Voc)	38.7 V	38.9 V	39.1 V	39.3 V	39.5 V	39.7 V
Short Circuit Current (Isc)	14.48 A	14.55 A	14.61 A	14.69 A	14.77 A	14.86 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	22.8%	23.0%
Operating Temperature	-40°C ~ +85°C					
Max. System Voltage	1500V (IEC/UL)					
Module Fire Performance	TYPE 38 (UL 61730) or CLASS C (IEC 61730)					
Max. Series Fuse Rating	25 A					
Protection Class	Class II					
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	108 [2 X (9 X 6)]
Dimensions	1800 x 1134 x 30 mm (70.9 x 44.6 x 1.18 in)
Weight	22.7 kg (50.0 lbs)
Front Glass	1.6 mm heat strengthened glass with anti-reflective coating
Back Glass	1.6 mm heat strengthened glass
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1150 mm (45.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	840 pieces

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

ELECTRICAL DATA | NMOT*

CS6.1-54TD	445	450	455	460	465	470
Nominal Max. Power (Pmax)	337 W	340 W	344 W	348 W	352 W	355 W
Opt. Operating Voltage (Vmp)	31.0 V	31.2 V	31.4 V	31.6 V	31.8 V	32.0 V
Opt. Operating Current (Imp)	10.85 A	10.91 A	10.96 A	11.02 A	11.07 A	11.12 A
Open Circuit Voltage (Voc)	36.6 V	36.8 V	37.0 V	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	11.68 A	11.73 A	11.78 A	11.85 A	11.91 A	11.98 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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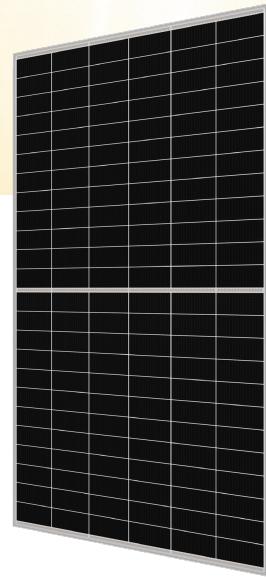


TOPHiKu6

N-type TOPCon Technology

600 W ~ 630 W

CS6.1-72TD-600 | 605 | 610 | 615 | 620 | 625 | 630



MORE POWER



Module power up to 630 W
Module efficiency up to 23.3 %



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



Tested up to ice ball of 35 mm diameter
according to IEC 61215 standard



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
IEC62941: 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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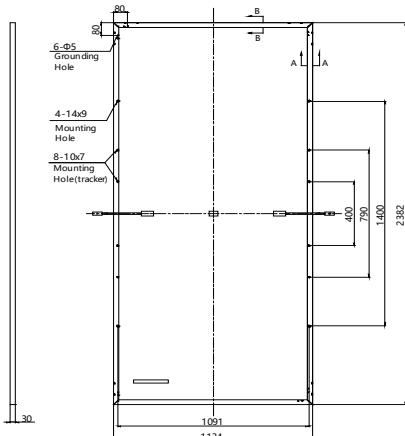
* For detailed information, please refer to the Installation Manual.

CSI Solar Co., Ltd.

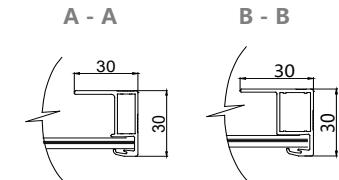
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

ENGINEERING DRAWING (mm)

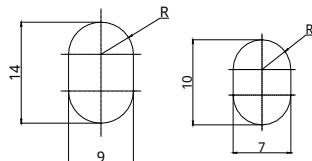
Rear View



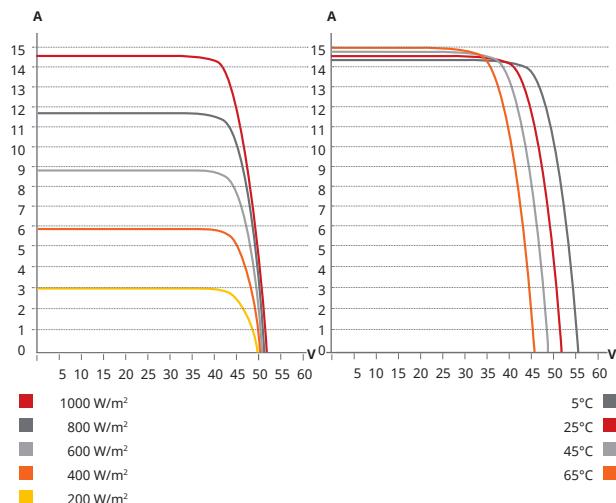
Frame Cross Section



Mounting Hole



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



ELECTRICAL DATA | STC*

CS6.1-72TD	600	605	610	615	620	625	630
Nominal Max. Power (Pmax)	600 W	605 W	610 W	615 W	620 W	625 W	630 W
Opt. Operating Voltage (Vmp)	44.0 V	44.2 V	44.4 V	44.6 V	44.8 V	45.0 V	45.2 V
Opt. Operating Current (Imp)	13.64 A	13.69 A	13.74 A	13.79 A	13.84 A	13.89 A	13.94 A
Open Circuit Voltage (Voc)	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V	52.8 V	53.0 V
Short Circuit Current (Isc)	14.54 A	14.60 A	14.66 A	14.72 A	14.78 A	14.84 A	14.90 A
Module Efficiency	22.2%	22.4%	22.6%	22.8%	23.0%	23.1%	23.3%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL)						
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	25 A						
Protection Class	Class II						
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*

CS6.1-72TD	600	605	610	615	620	625	630
Nominal Max. Power (Pmax)	454 W	458 W	461 W	465 W	469 W	473 W	476 W
Opt. Operating Voltage (Vmp)	41.6 V	41.8 V	42.0 V	42.2 V	42.4 V	42.5 V	42.7 V
Opt. Operating Current (Imp)	10.91 A	10.95 A	10.99 A	11.03 A	11.07 A	11.11 A	11.15 A
Open Circuit Voltage (Voc)	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V	50.0 V	50.2 V
Short Circuit Current (Isc)	11.73 A	11.77 A	11.82 A	11.87 A	11.92 A	11.97 A	12.02 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 x 1134 x 30 mm (93.8 x 44.6 x 1.18 in)
Weight	32.8 kg (72.3 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 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 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

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PARTNER SECTION

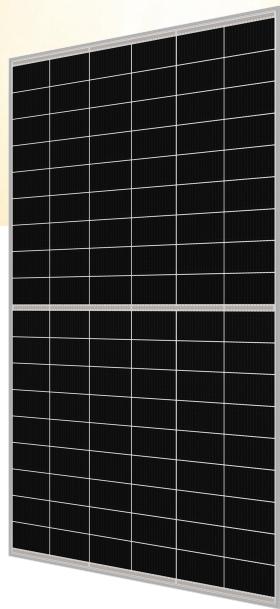
NEW

TOPHiKu6

N-type TOPCon Technology

490 W ~ 520 W

CS6.2-54TM-490 | 495 | 500 | 505 | 510 | 515 | 520



MORE POWER



Module power up to 520 W
Module efficiency up to 23.4 %



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



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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

*Black frame product can be provided upon request.



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*

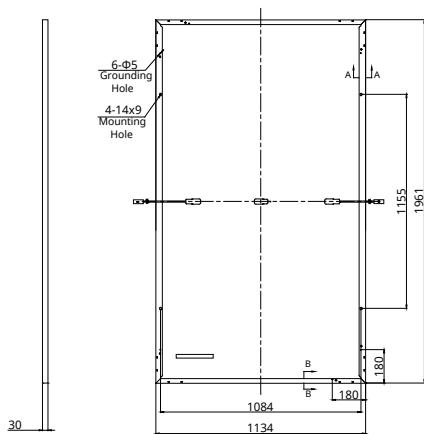
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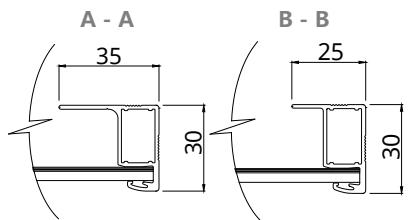
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ENGINEERING DRAWING (mm)

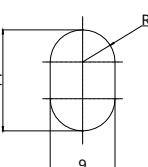
Rear View



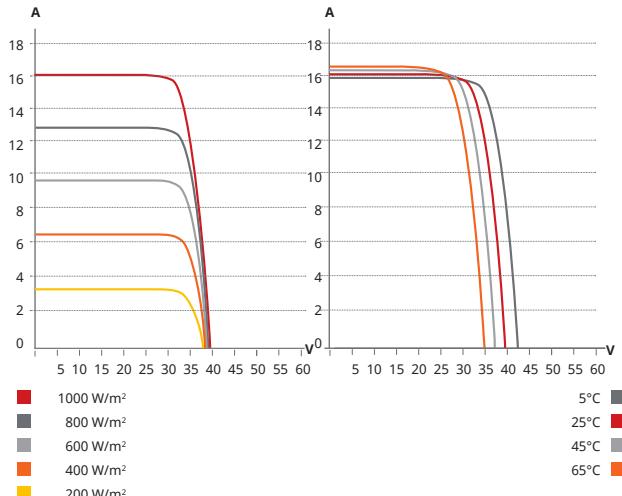
Frame Cross Section



Mounting Hole



CS6.2-54TM-505 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.2-54TM	490	495	500	505	510	515	520
Nominal Max. Power (Pmax)	490 W	495 W	500 W	505 W	510 W	515 W	520 W
Opt. Operating Voltage (Vmp)	33.0 V	33.2 V	33.4 V	33.6 V	33.8 V	34.0 V	34.2 V
Opt. Operating Current (Imp)	14.85 A	14.91 A	14.98 A	15.04 A	15.10 A	15.16 A	15.22 A
Open Circuit Voltage (Voc)	39.2 V	39.4 V	39.6 V	39.8 V	40.0 V	40.2 V	40.4 V
Short Circuit Current (Isc)	15.86 A	15.91 A	16.00 A	16.05 A	16.10 A	16.15 A	16.20 A
Module Efficiency	22.0%	22.3%	22.5%	22.7%	22.9%	23.2%	23.4%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (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						
Protection Class	Class II						
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*

CS6.2-54TM	490	495	500	505	510	515	520
Nominal Max. Power (Pmax)	371 W	374 W	378 W	382 W	386 W	390 W	393 W
Opt. Operating Voltage (Vmp)	31.2 V	31.4 V	31.6 V	31.8 V	32.0 V	32.1 V	32.3 V
Opt. Operating Current (Imp)	11.88 A	11.93 A	11.98 A	12.03 A	12.07 A	12.12 A	12.17 A
Open Circuit Voltage (Voc)	37.1 V	37.3 V	37.5 V	37.7 V	37.9 V	38.1 V	38.3 V
Short Circuit Current (Isc)	12.78 A	12.82 A	12.89 A	12.93 A	12.97 A	13.01 A	13.05 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	108 [2 x (9 x 6)]
Dimensions	1961 x 1134 x 30 mm (77.2 x 44.6 x 1.18 in)
Weight	23.3 kg (51.4 lbs)
Front Glass	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)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	864 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)	0.045 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

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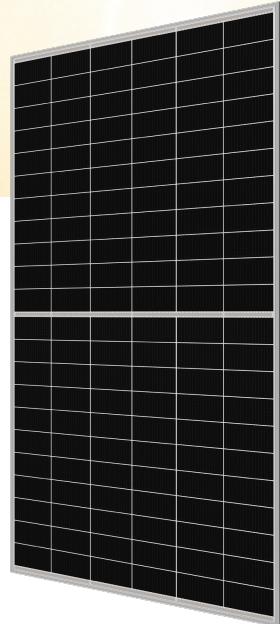
NEW

TOPHiKu6

N-type TOPCon Technology

605 W ~ 635 W

CS6.2-66TM-605 | 610 | 615 | 620 | 625 | 630 | 635



MORE POWER



Module power up to 635 W
Module efficiency up to 23.5 %



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



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



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*

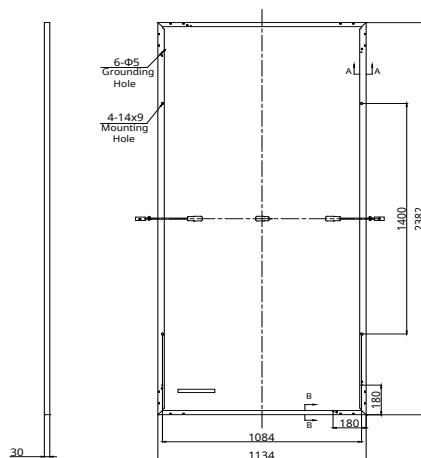
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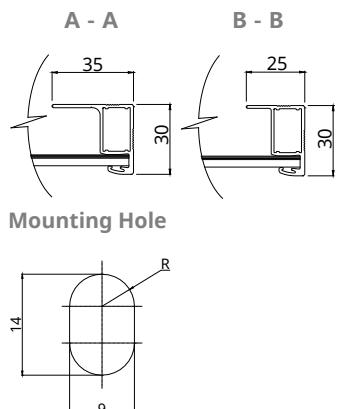
* For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

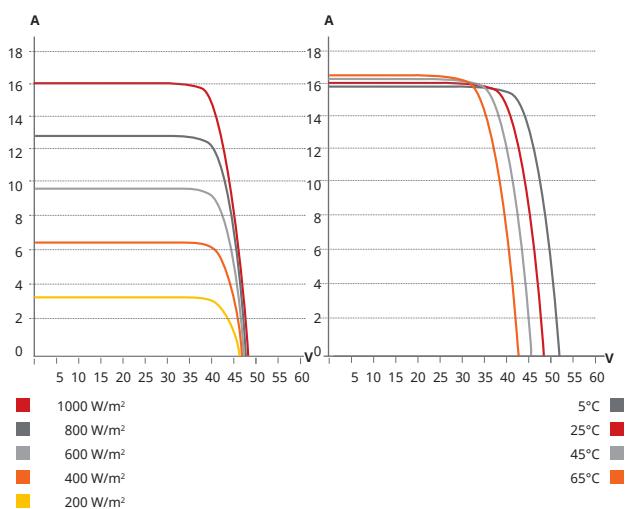
Rear View



Frame Cross Section



CS6.2-66TM-615 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.2-66TM	605	610	615	620	625	630	635
Nominal Max. Power (Pmax)	605 W	610 W	615 W	620 W	625 W	630 W	635 W
Opt. Operating Voltage (Vmp)	40.6 V	40.8 V	41.0 V	41.2 V	41.4 V	41.6 V	41.8 V
Opt. Operating Current (Imp)	14.91 A	14.96 A	15.01 A	15.06 A	15.11 A	15.16 A	15.21 A
Open Circuit Voltage (Voc)	47.8 V	48.0 V	48.2 V	48.4 V	48.6 V	48.8 V	49.0 V
Short Circuit Current (Isc)	15.91 A	15.97 A	16.02 A	16.08 A	16.14 A	16.20 A	16.26 A
Module Efficiency	22.4%	22.6%	22.8%	23.0%	23.1%	23.3%	23.5%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (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						
Protection Class	Class II						
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*

CS6.2-66TM	605	610	615	620	625	630	635
Nominal Max. Power (Pmax)	458 W	461 W	465 W	469 W	473 W	477 W	480 W
Opt. Operating Voltage (Vmp)	38.4 V	38.6 V	38.8 V	38.9 V	39.1 V	39.3 V	39.5 V
Opt. Operating Current (Imp)	11.92 A	11.96 A	12.00 A	12.04 A	12.08 A	12.12 A	12.16 A
Open Circuit Voltage (Voc)	45.3 V	45.4 V	45.6 V	45.8 V	46.0 V	46.2 V	46.4 V
Short Circuit Current (Isc)	12.82 A	12.87 A	12.91 A	12.96 A	13.00 A	13.05 A	13.10 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	2382 x 1134 x 30 mm (93.8 x 44.6 x 1.18 in)
Weight	28.1 kg (61.9 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	300 mm (11.8 in) (+) / 200 mm (7.9 in) (Including Connector) (-) 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)	0.045 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

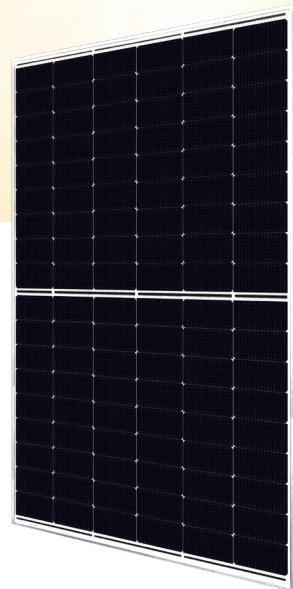
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TOPHiKu6

N-type TOPCon Technology

425 W ~ 450 W

CS6R-425 | 430 | 435 | 440 | 445 | 450T



MORE POWER



Module power up to 450 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%/°C,
increases energy yield in hot climate



Lower LCOE & system cost

*Black frame product can be provided upon request.



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.

MORE RELIABLE



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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

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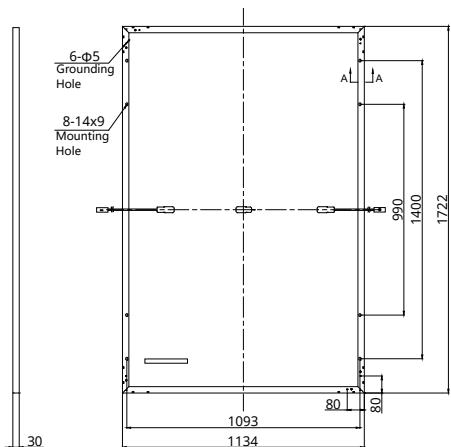
* For detailed information, please refer to the Installation Manual.

CSI Solar Co., Ltd.

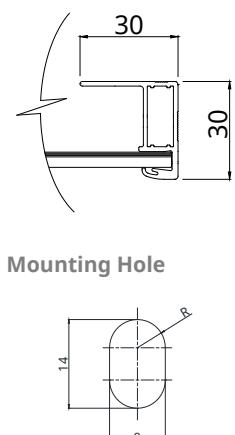
199 Lushan Road, SND, Suzhou, Jiangsu, China, 215129, www.csisolar.com, support@csisolar.com

ENGINEERING DRAWING (mm)

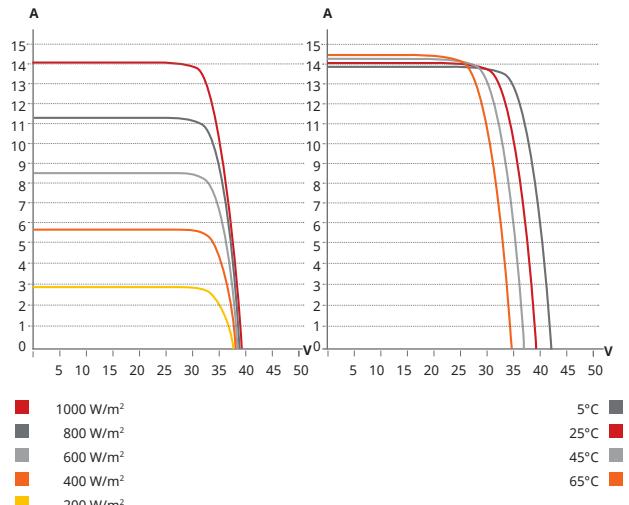
Rear View



Frame Cross Section A-A



CS6R-440T / I-V CURVES



ELECTRICAL DATA | STC*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	425 W	430 W	435 W	440 W	445 W	450 W
Opt. Operating Voltage (Vmp)	31.8 V	32.0 V	32.2 V	32.4 V	32.6 V	32.8 V
Opt. Operating Current (Imp)	13.37 A	13.44 A	13.51 A	13.59 A	13.66 A	13.72 A
Open Circuit Voltage (Voc)	38.8 V	39.0 V	39.2 V	39.4 V	39.6 V	39.8 V
Short Circuit Current (Isc)	13.78 A	13.86 A	13.94 A	14.01 A	14.09 A	14.16 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	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					
Protection Class	Class II					
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	108 [2 X (9 X 6)]
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.18 in)
Weight	21.3 kg (47.0 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)
Connector	T6 or MC4 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1100 mm (43.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	910 pieces or 840 pieces (only for US & Canada)

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

ELECTRICAL DATA | NMOT*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	321 W	325 W	329 W	333 W	337 W	340 W
Opt. Operating Voltage (Vmp)	30.1 V	30.3 V	30.4 V	30.6 V	30.8 V	31.0 V
Opt. Operating Current (Imp)	10.69 A	10.75 A	10.81 A	10.87 A	10.92 A	10.98 A
Open Circuit Voltage (Voc)	36.7 V	36.9 V	37.1 V	37.3 V	37.5 V	37.7 V
Short Circuit Current (Isc)	11.11 A	11.18 A	11.24 A	11.30 A	11.36 A	11.42 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

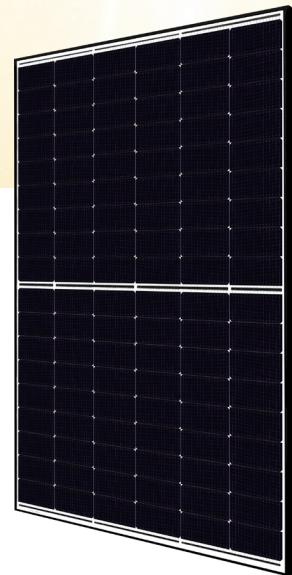


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TOPHiKu6

N-type TOPCon Technology

425 W ~ 450 W

CS6R-425 | 430 | 435 | 440 | 445 | 450T

MORE POWER



Module power up to 450 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%/°C,
increases energy yield in hot climate



Lower LCOE & system cost

MORE RELIABLE



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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



25 Years Industry Leading 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%**

*Subject to the terms and conditions contained in the applicable Canadian Solar Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

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



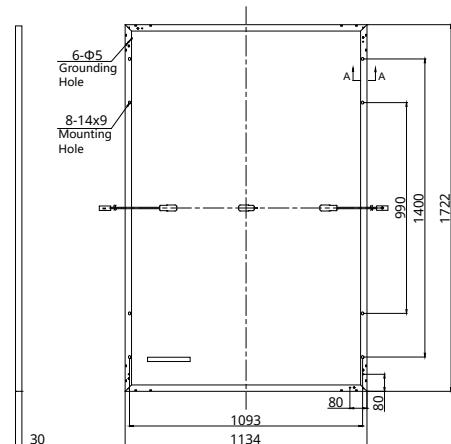
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CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 23 years, it has successfully delivered over 125 GW of premium-quality solar modules across the world.

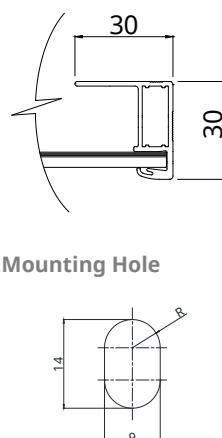
* For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

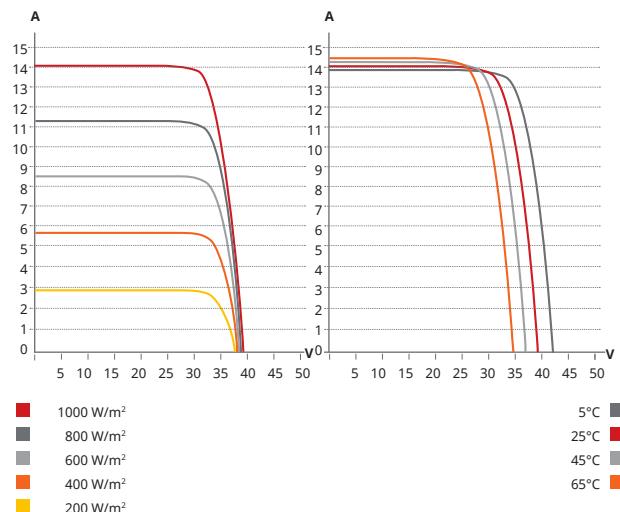
Rear View



Frame Cross Section A-A



CS6R-440T / I-V CURVES



ELECTRICAL DATA | STC*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	425 W	430 W	435 W	440 W	445 W	450 W
Opt. Operating Voltage (Vmp)	31.8 V	32.0 V	32.2 V	32.4 V	32.6 V	32.8 V
Opt. Operating Current (Imp)	13.37 A	13.44 A	13.51 A	13.59 A	13.66 A	13.72 A
Open Circuit Voltage (Voc)	38.8 V	39.0 V	39.2 V	39.4 V	39.6 V	39.8 V
Short Circuit Current (Isc)	13.78 A	13.86 A	13.94 A	14.01 A	14.09 A	14.16 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	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					
Protection Class	Class II					
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	108 [2 X (9 X 6)]
Dimensions	1722 × 1134 × 30 mm (67.8 × 44.6 × 1.18 in)
Weight	21.3 kg (47.0 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 MC4 or MC4-EVO2 or MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1100 mm (43.3 in)*
Per Pallet	35 pieces
Per Container (40' HQ)	910 pieces or 840 pieces (only for US & Canada)

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

ELECTRICAL DATA | NMOT*

CS6R	425T	430T	435T	440T	445T	450T
Nominal Max. Power (Pmax)	321 W	325 W	329 W	333 W	337 W	340 W
Opt. Operating Voltage (Vmp)	30.1 V	30.3 V	30.4 V	30.6 V	30.8 V	31.0 V
Opt. Operating Current (Imp)	10.69 A	10.75 A	10.81 A	10.87 A	10.92 A	10.98 A
Open Circuit Voltage (Voc)	36.7 V	36.9 V	37.1 V	37.3 V	37.5 V	37.7 V
Short Circuit Current (Isc)	11.11 A	11.18 A	11.24 A	11.30 A	11.36 A	11.42 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

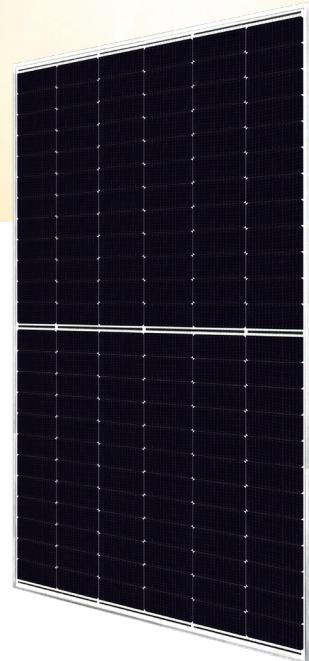


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TOPHiKu6

N-type TOPCon Technology

570 W ~ 600 W

CS6W-570 | 575 | 580 | 585 | 590 | 595 | 600T

MORE POWER



Module power up to 600 W
Module efficiency up to 23.2 %



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



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.

MORE RELIABLE



Tested up to ice ball of 45 mm diameter
according to IEC 61215 standard



Minimizes micro-crack impacts



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

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



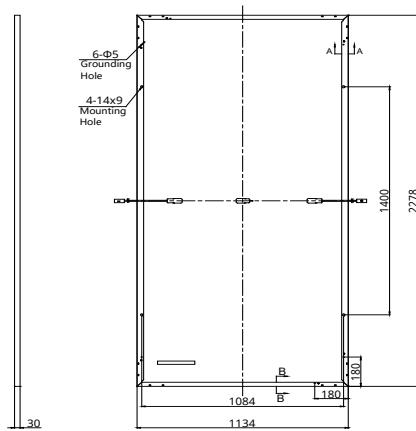
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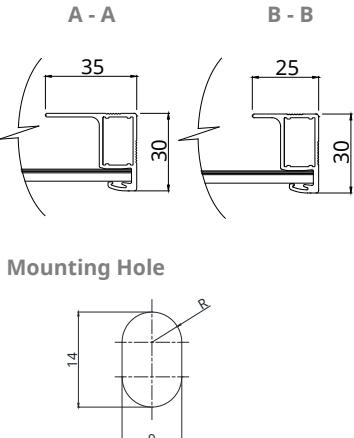
* For detailed information, please refer to the Installation Manual.

ENGINEERING DRAWING (mm)

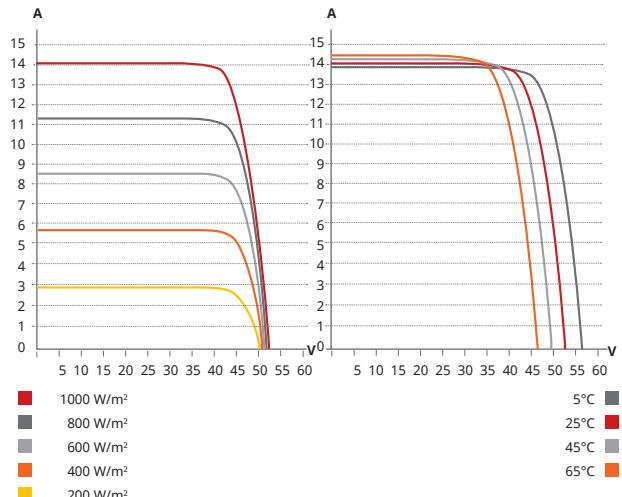
Rear View



Frame Cross Section



CS6W-590T / I-V CURVES



ELECTRICAL DATA | STC*

CS6W	570T	575T	580T	585T	590T	595T	600T
Nominal Max. Power (Pmax)	570 W	575 W	580 W	585 W	590 W	595 W	600 W
Opt. Operating Voltage (Vmp)	42.7 V	42.9 V	43.1 V	43.3 V	43.5 V	43.7 V	43.9 V
Opt. Operating Current (Imp)	13.35 A	13.41 A	13.46 A	13.52 A	13.57 A	13.62 A	13.68 A
Open Circuit Voltage (Voc)	51.8 V	52.0 V	52.2 V	52.4 V	52.6 V	52.8 V	53.0 V
Short Circuit Current (Isc)	13.81 A	13.88 A	13.93 A	14.00 A	14.06 A	14.12 A	14.18 A
Module Efficiency	22.1%	22.3%	22.5%	22.6%	22.8%	23.0%	23.2%
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						
Protection Class	Class II						
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	600T
Nominal Max. Power (Pmax)	431 W	435 W	439 W	443 W	446 W	450 W	454 W
Opt. Operating Voltage (Vmp)	40.4 V	40.6 V	40.7 V	40.9 V	41.1 V	41.3 V	41.5 V
Opt. Operating Current (Imp)	10.68 A	10.72 A	10.77 A	10.81 A	10.85 A	10.89 A	10.94 A
Open Circuit Voltage (Voc)	49.0 V	49.2 V	49.4 V	49.6 V	49.8 V	50.0 V	50.2 V
Short Circuit Current (Isc)	11.14 A	11.19 A	11.23 A	11.29 A	11.34 A	11.39 A	11.43 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-reflective coating
Frame	Anodized aluminium alloy
J-Box	IP68, 3 bypass diodes
Cable	4 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 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

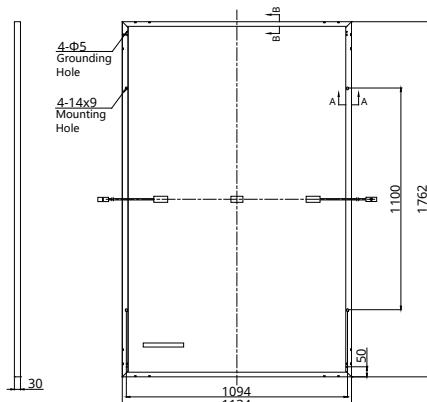
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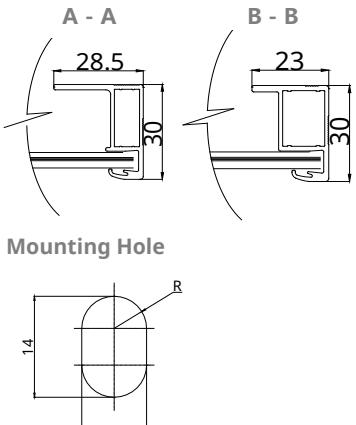
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ENGINEERING DRAWING (mm)

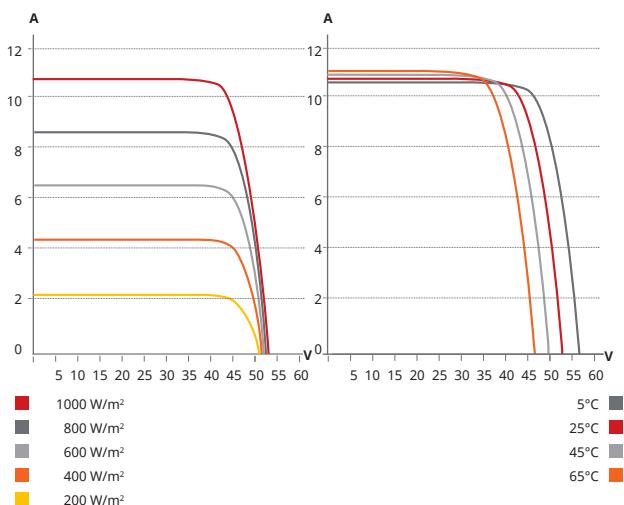
Rear View



Frame Cross Section



CS6.2-48TD-455 / I-V CURVES



ELECTRICAL DATA | STC*

CS6.2-48TD	435	440	445	450	455	460	465
Nominal Max. Power (Pmax)	435 W	440 W	445 W	450 W	455 W	460 W	465 W
Opt. Operating Voltage (Vmp)	44.2 V	44.4 V	44.6 V	44.8 V	45.0 V	45.2 V	45.4 V
Opt. Operating Current (Imp)	9.85 A	9.91 A	9.98 A	10.05 A	10.12 A	10.18 A	10.25 A
Open Circuit Voltage (Voc)	52.3 V	52.5 V	52.7 V	52.9 V	53.1 V	53.3 V	53.5 V
Short Circuit Current (Isc)	10.47 A	10.54 A	10.61 A	10.68 A	10.75 A	10.82 A	10.89 A
Module Efficiency	21.8%	22.0%	22.3%	22.5%	22.8%	23.0%	23.3%
Operating Temperature	-40°C ~ +85°C						
Max. System Voltage	1500V (IEC/UL)						
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC 61730)						
Max. Series Fuse Rating	20 A						
Protection Class	Class II						
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*

CS6.2-48TD	435	440	445	450	455	460	465
Nominal Max. Power (Pmax)	328 W	332 W	336 W	339 W	343 W	347 W	351 W
Opt. Operating Voltage (Vmp)	41.7 V	41.8 V	42.0 V	42.2 V	42.4 V	42.6 V	42.8 V
Opt. Operating Current (Imp)	7.87 A	7.93 A	7.98 A	8.04 A	8.09 A	8.14 A	8.20 A
Open Circuit Voltage (Voc)	49.4 V	49.6 V	49.8 V	50.0 V	50.1 V	50.3 V	50.5 V
Short Circuit Current (Isc)	8.44 A	8.50 A	8.55 A	8.61 A	8.67 A	8.72 A	8.78 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	1762 x 1134 x 30 mm (69.4 x 44.6 x 1.18 in)
Weight	24.6 kg (54.2 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 mm ² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1100 mm (43.3 in)*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	36 pieces
Per Container (40' HQ)	936 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)	0.045 % / °C
Nominal Module Operating Temperature	42 ± 3°C

PARTNER SECTION

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