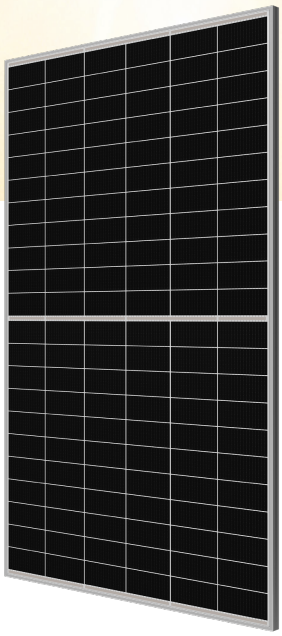
NEW

CanadianSolar



TOPHiKu6

N-type TOPCon Technology

570 W ~ 645 W

CS6.2-66TM-570|575|580|585|590|595|600|605|610|615|620|625|630|635|640|645 (IEC1500V)

MORE POWER

645 W — Module power up to 645 W
Module efficiency up to 23.9 %

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

Front side test load up to 5400 Pa, rear side test 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

* 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 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.

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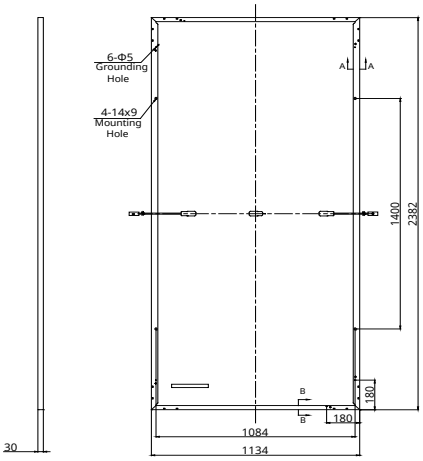
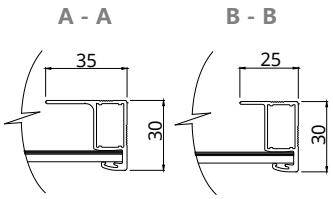
ENGINEERING DRAWING (mm)

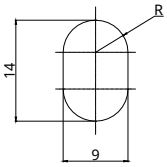
Rear View



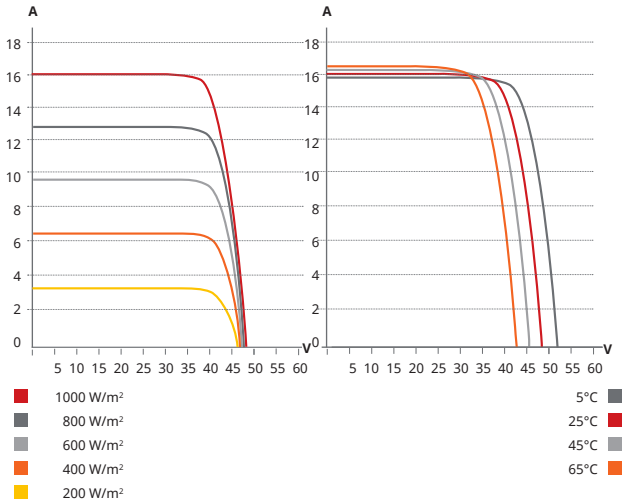
Frame Cross Section



Mounting Hole



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



ELECTRICAL DATA | STC*

CS6.2-66TM	570	575	580	585	590	595	600
Nominal Max. Power (Pmax)	570 W	575 W	580 W	585 W	590 W	595 W	600 W
Opt. Operating Voltage (Vmp)	39.2 V	39.4 V	39.6 V	39.8 V	40.0 V	40.2 V	40.4 V
Opt. Operating Current (Imp)	14.56 A	14.61 A	14.66 A	14.71 A	14.76 A	14.81 A	14.86 A
Open Circuit Voltage (Voc)	46.4 V	46.6 V	46.8 V	47.0 V	47.2 V	47.4 V	47.6 V
Short Circuit Current (Isc)	15.49 A	15.55 A	15.61 A	15.67 A	15.73 A	15.79 A	15.85 A
Module Efficiency	21.1%	21.3%	21.5%	21.7%	21.8%	22.0%	22.2%
Module Operating Temperature	-40°C ~ +85°C						
Module (T98)max	70°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. Measurement uncertainty: ±3 % (Pmax).

ELECTRICAL DATA | NMOT*

CS6.2-66TM	570	575	580	585	590	595	600
Nominal Max. Power (Pmax)	431 W	435 W	439 W	443 W	446 W	450 W	454 W
Opt. Operating Voltage (Vmp)	37.1 V	37.2 V	37.4 V	37.6 V	37.8 V	38.0 V	38.2 V
Opt. Operating Current (Imp)	11.63 A	11.68 A	11.72 A	11.76 A	11.80 A	11.84 A	11.88 A
Open Circuit Voltage (Voc)	43.9 V	44.1 V	44.3 V	44.5 V	44.7 V	44.9 V	45.1 V
Short Circuit Current (Isc)	12.48 A	12.53 A	12.58 A	12.63 A	12.67 A	12.72 A	12.77 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 × 1134 × 30 mm (93.8 × 44.6 × 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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	Tlian: T6 Stäubli: PV-KST4-EVO2A/6I, PV-KBT4-EVO2A/6I
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

* The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. CSI Solar Co., Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.
Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

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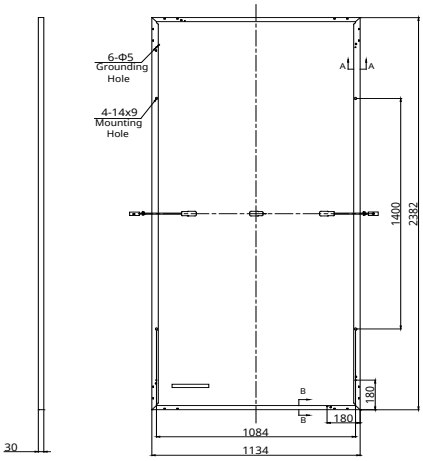
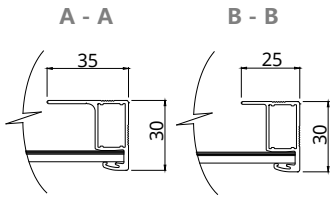
* Manufactured and assembled in China and Thailand.

ENGINEERING DRAWING (mm)

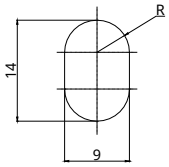
Rear View



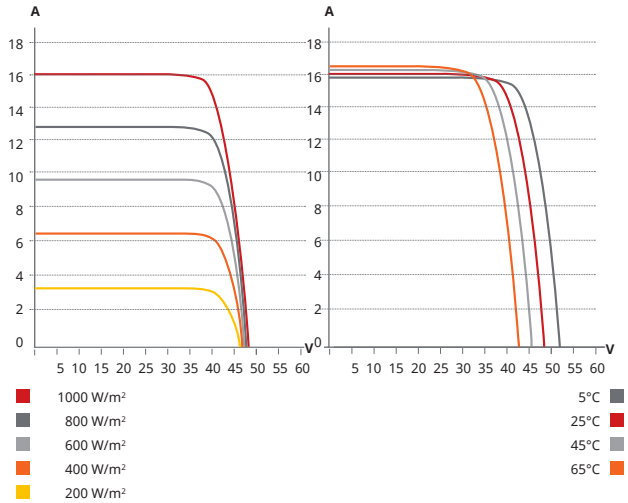
Frame Cross Section



Mounting Hole



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%
Module Operating Temperature	-40°C ~ +85°C						
Module (T98)max	70°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. Measurement uncertainty: ±3 % (Pmax).

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 × 1134 × 30 mm (93.8 × 44.6 × 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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	Tlian: T6 Stäubli: PV-KST4-EVO2A/6I, PV-KBT4-EVO2A/6I
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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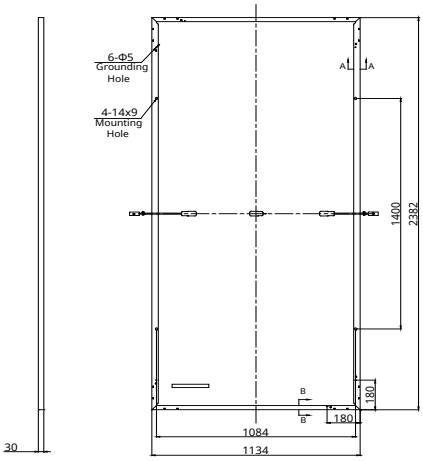
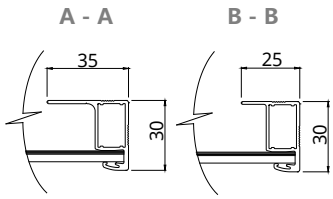
ENGINEERING DRAWING (mm)

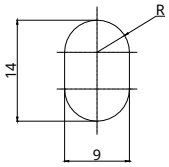
Rear View



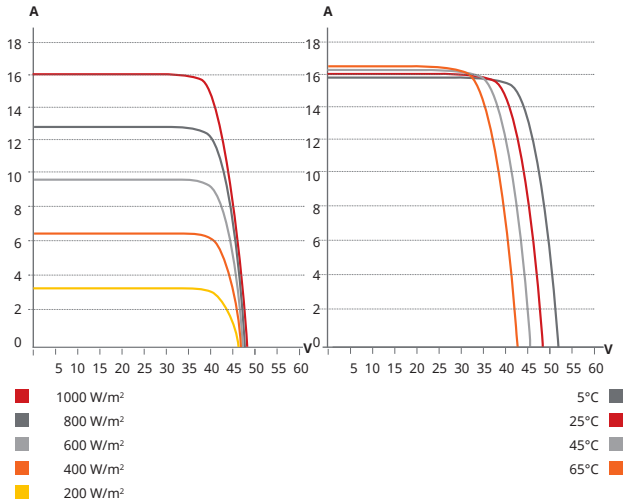
Frame Cross Section



Mounting Hole



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



ELECTRICAL DATA | STC*

CS6.2-66TM	640	645
Nominal Max. Power (Pmax)	640 W	645 W
Opt. Operating Voltage (Vmp)	42.0 V	42.2 V
Opt. Operating Current (Imp)	15.26 A	15.31 A
Open Circuit Voltage (Voc)	49.4 V	49.6 V
Short Circuit Current (Isc)	16.32 A	16.38 A
Module Efficiency	23.7%	23.9%
Module Operating Temperature	-40°C ~ +85°C	
Module (T98)max	70°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. Measurement uncertainty: ±3 % (Pmax).

ELECTRICAL DATA | NMOT*

CS6.2-66TM	640	645
Nominal Max. Power (Pmax)	484 W	488 W
Opt. Operating Voltage (Vmp)	39.7 V	39.9 V
Opt. Operating Current (Imp)	12.19 A	12.23 A
Open Circuit Voltage (Voc)	46.8 V	47.0 V
Short Circuit Current (Isc)	13.15 A	13.20 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
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Connector	Tlian: T6 Stäubli: PV-KST4-EVO2A/6I, PV-KBT4-EVO2A/6I
Per Pallet	36 pieces
Per Container (40' HQ)	720 pieces

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Specification	Data
Temperature Coefficient (Pmax)	-0.29 % / °C
Temperature Coefficient (Voc)	-0.25 % / °C
Temperature Coefficient (Isc)	0.045 % / °C
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