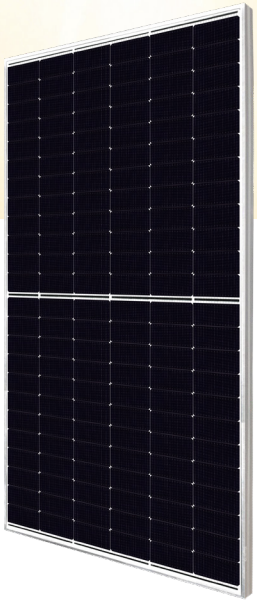
NEW

Preliminary Technical Information Sheet

CanadianSolar



TOPHiKu6

N-type TOPCon Technology

575 W ~ 635 W

CS6.1-72TD-575|580|585|590|595|600|605|610|615|620|625|630|635(IEC1000 V)

CS6.1-72TD-575|580|585|590|595|600|605|610|615|620|625|630|635(IEC1500 V)

MORE POWER

635 W — 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

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*

* 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.

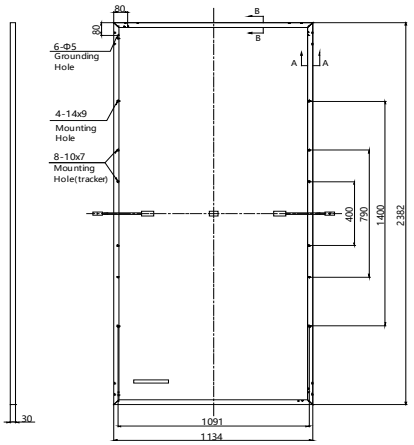
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 22 years,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

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

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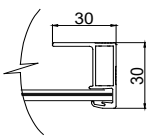
ENGINEERING DRAWING (mm)

Rear View

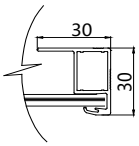


Frame Cross Section

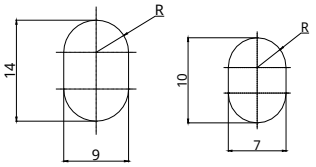
A - A



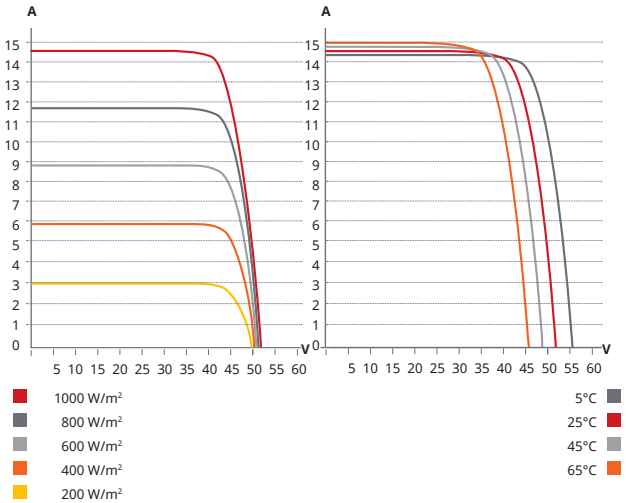
B - B



Mounting Hole



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



ELECTRICAL DATA | STC*

CS6.1-72TD	575	580	585	590
Nominal Max. Power (Pmax)	575 W	580 W	585 W	590 W
Opt. Operating Voltage (Vmp)	43.0 V	43.2 V	43.4 V	43.6 V
Opt. Operating Current (Imp)	13.38 A	13.43 A	13.48 A	13.54 A
Open Circuit Voltage (Voc)	50.8 V	51.0 V	51.2 V	51.4 V
Short Circuit Current (Isc)	14.24 A	14.30 A	14.36 A	14.42 A
Module Efficiency	21.3%	21.5%	21.7%	21.8%
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. Measurement uncertainty: ±3 % (Pmax).

ELECTRICAL DATA | NMOT*

CS6.1-72TD	575	580	585	590
Nominal Max. Power (Pmax)	435 W	439 W	442 W	446 W
Opt. Operating Voltage (Vmp)	40.7 V	40.8 V	41.0 V	41.2 V
Opt. Operating Current (Imp)	10.70 A	10.74 A	10.78 A	10.82 A
Open Circuit Voltage (Voc)	48.1 V	48.3 V	48.5 V	48.7 V
Short Circuit Current (Isc)	11.48 A	11.53 A	11.58 A	11.63 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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	Tlian: T6 Stäubli: PV-KST4/xy-UR, PV-KBT4/xy-UR or PV-KST4-EVO2/XY, PV KBT4-EVO2/XY or PV-KST4-EVO2A/XY, PV-KBT4-EVO2A/XY
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

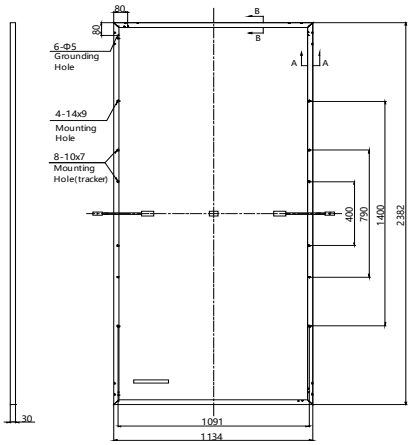
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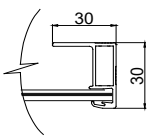
ENGINEERING DRAWING (mm)

Rear View

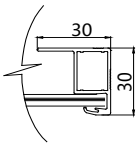


Frame Cross Section

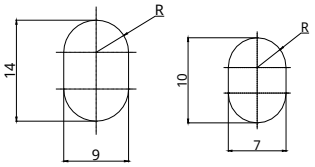
A - A



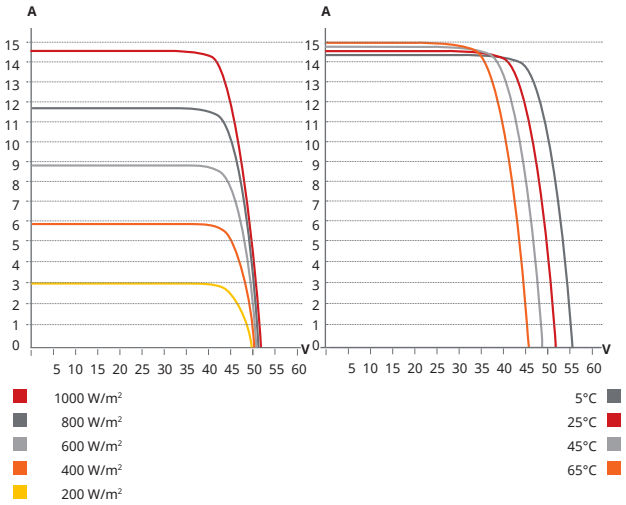
B - B



Mounting Hole



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. Measurement uncertainty: ±3 % (Pmax).

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.

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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	Tlian: T6 Stäubli: PV-KST4/xy-UR, PV-KBT4/xy-UR or PV-KST4-EVO2/XY, PV KBT4-EVO2/XY or PV-KST4-EVO2A/XY, PV-KBT4-EVO2A/XY
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

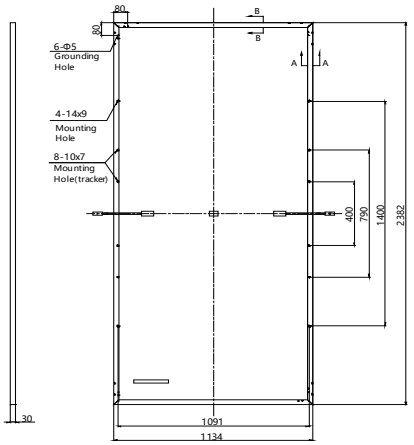
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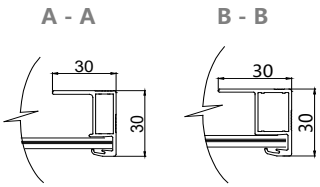
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ENGINEERING DRAWING (mm)

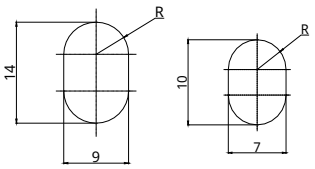
Rear View



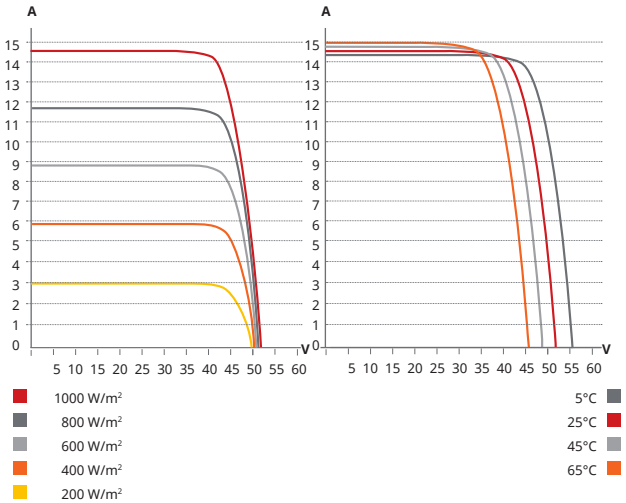
Frame Cross Section



Mounting Hole



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



ELECTRICAL DATA | STC*

CS6.1-72TD	625	630	635
Nominal Max. Power (Pmax)	625 W	630 W	635 W
Opt. Operating Voltage (Vmp)	45.0 V	45.2 V	45.4 V
Opt. Operating Current (Imp)	13.89 A	13.94 A	13.99 A
Open Circuit Voltage (Voc)	52.8 V	53.0 V	53.2 V
Short Circuit Current (Isc)	14.84 A	14.90 A	14.96 A
Module Efficiency	23.1%	23.3%	23.5%
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. Measurement uncertainty: ±3 % (Pmax).

ELECTRICAL DATA | NMOT*

CS6.1-72TD	625	630	635
Nominal Max. Power (Pmax)	473 W	476 W	480 W
Opt. Operating Voltage (Vmp)	42.5 V	42.7 V	42.9 V
Opt. Operating Current (Imp)	11.11 A	11.15 A	11.19 A
Open Circuit Voltage (Voc)	50.0 V	50.2 V	50.4 V
Short Circuit Current (Isc)	11.97 A	12.02 A	12.06 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 mm² (IEC), 12 AWG (UL)
Cable Length (Including Connector)	350 mm (13.8 in) (+) / 250 mm (9.8 in) (-) or customized length*
Connector	Tlian: T6 Stäubli: PV-KST4/xy-UR, PV-KBT4/xy-UR or PV-KST4-EVO2/XY, PV KBT4-EVO2/XY or PV-KST4-EVO2A/XY, PV-KBT4-EVO2A/XY
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

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