






# TOPBiHiKu6

N-type Bifacial TOPCon Technology




600 W ~ 630 W

CS6.2-66TB-600 | 605 | 610 | 615 | 620 | 625 | 630H

## MORE POWER

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

-  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 4000 Pa\*

## TRACEABLE SUPPLY CHAIN



Independently audited by STS

12  
Years

Enhanced Product Warranty on Materials  
and Workmanship\*

30  
Years

Linear Power Performance Warranty\*

1<sup>st</sup> 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  
UL 61730 / IEC 61701 / IEC 62716  
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.

**Canadian Solar (USA) Inc.** 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.

**Canadian Solar (USA) Inc.**

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### Rear View

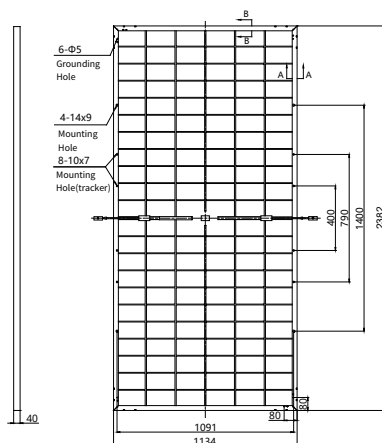


Figure 1 consists of two graphs, A and B, showing the dependence of the maximum temperature of the surface of the sample ( $T_{max}$ ) on the distance from the surface of the sample to the surface of the heat source ( $V$ ).

Graph A (Left): Shows  $T_{max}$  (Y-axis, 0 to 18) versus  $V$  (X-axis, 0 to 60) for different heat fluxes ( $q$ ) at  $5^{\circ}\text{C}$ . The curves are for  $q = 1000 \text{ W/m}^2$  (red),  $800 \text{ W/m}^2$  (dark grey),  $600 \text{ W/m}^2$  (light grey),  $400 \text{ W/m}^2$  (orange), and  $200 \text{ W/m}^2$  (yellow). The curves show that  $T_{max}$  decreases as  $V$  increases, and the curves shift to the right as  $q$  increases.

Graph B (Right): Shows  $T_{max}$  (Y-axis, 0 to 18) versus  $V$  (X-axis, 0 to 60) for different temperatures ( $T$ ) at  $1000 \text{ W/m}^2$ . The curves are for  $T = 5^{\circ}\text{C}$  (red),  $25^{\circ}\text{C}$  (dark grey),  $45^{\circ}\text{C}$  (light grey), and  $65^{\circ}\text{C}$  (orange). The curves show that  $T_{max}$  decreases as  $V$  increases, and the curves shift to the right as  $T$  increases.

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
<b>CS6.2-66TB-600H</b>		600 W	40.4 V	14.86 A	47.6 V	15.85 A	22.2%
<b>Bifacial Gain**</b>	5%	630 W	40.4 V	15.60 A	47.6 V	16.64 A	23.3%
	10%	660 W	40.4 V	16.35 A	47.6 V	17.44 A	24.4%
	20%	720 W	40.4 V	17.83 A	47.6 V	19.02 A	26.7%
<b>CS6.2-66TB-605H</b>		605 W	40.6 V	14.91 A	47.8 V	15.91 A	22.4%
<b>Bifacial Gain**</b>	5%	635 W	40.6 V	15.66 A	47.8 V	16.71 A	23.5%
	10%	666 W	40.6 V	16.40 A	47.8 V	17.50 A	24.7%
	20%	726 W	40.6 V	17.89 A	47.8 V	19.09 A	26.9%
<b>CS6.2-66TB-610H</b>		610 W	40.8 V	14.96 A	48.0 V	15.97 A	22.6%
<b>Bifacial Gain**</b>	5%	641 W	40.8 V	15.71 A	48.0 V	16.77 A	23.7%
	10%	671 W	40.8 V	16.46 A	48.0 V	17.57 A	24.8%
	20%	732 W	40.8 V	17.95 A	48.0 V	19.16 A	27.1%
<b>CS6.2-66TB-615H</b>		615 W	41.0 V	15.01 A	48.2 V	16.02 A	22.8%
<b>Bifacial Gain**</b>	5%	646 W	41.0 V	15.76 A	48.2 V	16.82 A	23.9%
	10%	677 W	41.0 V	16.51 A	48.2 V	17.62 A	25.1%
	20%	738 W	41.0 V	18.01 A	48.2 V	19.22 A	27.3%
<b>CS6.2-66TB-620H</b>		620 W	41.2 V	15.06 A	48.4 V	16.08 A	23.0%
<b>Bifacial Gain**</b>	5%	651 W	41.2 V	15.81 A	48.4 V	16.88 A	24.1%
	10%	682 W	41.2 V	16.57 A	48.4 V	17.69 A	25.2%
	20%	744 W	41.2 V	18.07 A	48.4 V	19.30 A	27.5%
<b>CS6.2-66TB-625H</b>		625 W	41.4 V	15.11 A	48.6 V	16.14 A	23.1%
<b>Bifacial Gain**</b>	5%	656 W	41.4 V	15.87 A	48.6 V	16.95 A	24.3%
	10%	688 W	41.4 V	16.62 A	48.6 V	17.75 A	25.5%
	20%	750 W	41.4 V	18.13 A	48.6 V	19.37 A	27.8%
<b>CS6.2-66TB-630H</b>		630 W	41.6 V	15.16 A	48.8 V	16.20 A	23.3%
<b>Bifacial Gain**</b>	5%	662 W	41.6 V	15.92 A	48.8 V	17.01 A	24.5%
	10%	693 W	41.6 V	16.68 A	48.8 V	17.82 A	25.7%
	20%	756 W	41.6 V	18.19 A	48.8 V	19.44 A	28.0%

**\*\* 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)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
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. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
<b>CS6.2-66TB-600H</b>	454 W	38.2 V	11.88 A	45.1 V	12.77 A
<b>CS6.2-66TB-605H</b>	458 W	38.4 V	11.92 A	45.3 V	12.82 A
<b>CS6.2-66TB-610H</b>	461 W	38.6 V	11.96 A	45.4 V	12.87 A
<b>CS6.2-66TB-615H</b>	465 W	38.8 V	12.00 A	45.6 V	12.91 A
<b>CS6.2-66TB-620H</b>	469 W	38.9 V	12.04 A	45.8 V	12.96 A
<b>CS6.2-66TB-625H</b>	473 W	39.1 V	12.08 A	46.0 V	13.00 A
<b>CS6.2-66TB-630H</b>	477 W	39.3 V	12.12 A	46.2 V	13.05 A

## MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
Cell Arrangement	132 [2 x (11 x 6) ]
Dimensions	2382 × 1134 × 40 mm (93.8 × 44.6 × 1.57 in)
Weight	33.4 kg (73.6 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 <sup>2</sup> (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	27 pieces
Per Container (40' HQ)	540 pieces or 486 pieces (only for US & Canada)

## 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