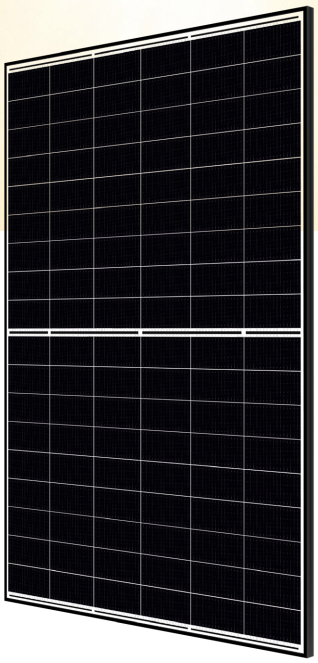
NEW

CanadianSolar



New N-type Bifacial Module

TOPBiHiKu6

CS6.2-54TB-495|500|505|510|515|520|525

MORE POWER

- Elegant dual-glass design for installations on rooftops, carports, etc
- 525 W — Module power up to 525 W, Module efficiency up to 23.6 %
- EXTRA POWER — 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

- 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*

25 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
UL 61730 / IEC 61701 / IEC 62716
UNI EN13501-1/5 / 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., a BNEF Tier 1 and S&P Global Tier 1 module manufacturer, is a leading provider of integrated solar and energy storage solutions. With over 24 years of expertise, the company has delivered more than 165 GW of premium-quality solar modules worldwide.

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

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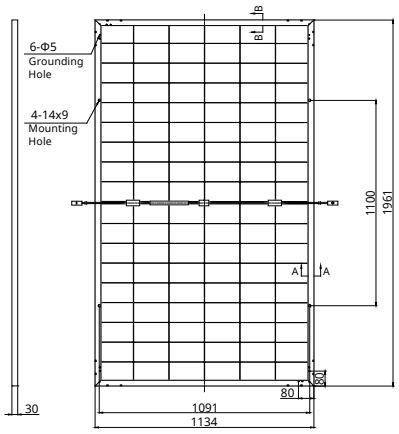
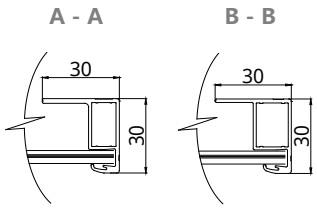
ENGINEERING DRAWING (mm)

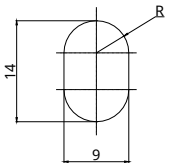
Rear View



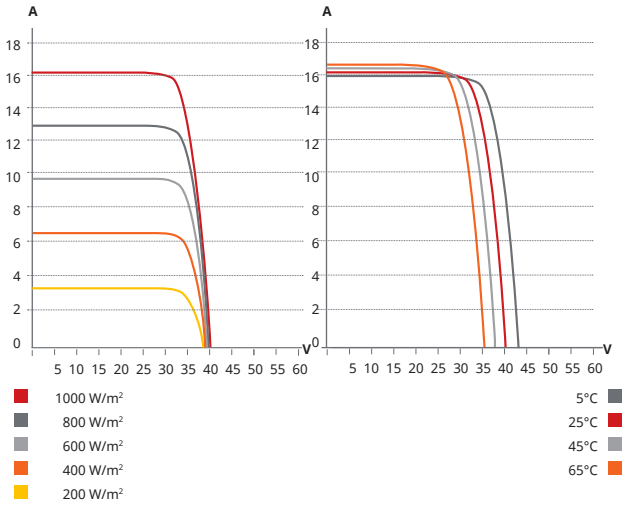
Frame Cross Section



Mounting Hole



CS6.2-54TB-515 / I-V CURVES



ELECTRICAL DATA (STC*) | CS6.2-54TB-xxx (xxx=495-525)

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
495		495 W	33.2 V	14.91 A	39.4 V	15.91 A	22.3%
Bifacial Gain**	5%	520 W	33.2 V	15.66 A	39.4 V	16.71 A	23.4%
	10%	545 W	33.2 V	16.40 A	39.4 V	17.50 A	24.5%
	20%	594 W	33.2 V	17.89 A	39.4 V	19.09 A	26.7%
500		500 W	33.4 V	14.98 A	39.6 V	16.00 A	22.5%
Bifacial Gain**	5%	525 W	33.4 V	15.73 A	39.6 V	16.80 A	23.6%
	10%	550 W	33.4 V	16.48 A	39.6 V	17.60 A	24.7%
	20%	600 W	33.4 V	17.98 A	39.6 V	19.20 A	27.0%
505		505 W	33.6 V	15.04 A	39.8 V	16.05 A	22.7%
Bifacial Gain**	5%	530 W	33.6 V	15.79 A	39.8 V	16.85 A	23.8%
	10%	556 W	33.6 V	16.54 A	39.8 V	17.66 A	25.0%
	20%	606 W	33.6 V	18.05 A	39.8 V	19.26 A	27.3%
510		510 W	33.8 V	15.10 A	40.0 V	16.10 A	22.9%
Bifacial Gain**	5%	536 W	33.8 V	15.86 A	40.0 V	16.91 A	24.1%
	10%	561 W	33.8 V	16.61 A	40.0 V	17.71 A	25.2%
	20%	612 W	33.8 V	18.12 A	40.0 V	19.32 A	27.5%
515		515 W	34.0 V	15.16 A	40.2 V	16.15 A	23.2%
Bifacial Gain**	5%	541 W	34.0 V	15.92 A	40.2 V	16.96 A	24.3%
	10%	567 W	34.0 V	16.68 A	40.2 V	17.77 A	25.5%
	20%	618 W	34.0 V	18.19 A	40.2 V	19.38 A	27.8%
520		520 W	34.2 V	15.22 A	40.4 V	16.20 A	23.4%
Bifacial Gain**	5%	546 W	34.2 V	15.98 A	40.4 V	17.01 A	24.6%
	10%	572 W	34.2 V	16.74 A	40.4 V	17.82 A	25.7%
	20%	624 W	34.2 V	18.26 A	40.4 V	19.44 A	28.1%
525		525 W	34.4 V	15.28 A	40.8 V	16.25 A	23.6%
Bifacial Gain**	5%	551 W	34.4 V	16.04 A	40.8 V	17.06 A	24.8%
	10%	578 W	34.4 V	16.81 A	40.8 V	17.88 A	26.0%
	20%	630 W	34.4 V	18.34 A	40.8 V	19.50 A	28.3%

* 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*) | CS6.2-54TB-xxx (xxx=495-525)

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
495	374 W	31.4 V	11.93 A	37.3 V	12.82 A
500	378 W	31.6 V	11.98 A	37.5 V	12.89 A
505	382 W	31.8 V	12.03 A	37.7 V	12.93 A
510	386 W	32.0 V	12.07 A	37.9 V	12.97 A
515	390 W	32.1 V	12.12 A	38.1 V	13.01 A
520	393 W	32.3 V	12.17 A	38.3 V	13.05 A
525	397 W	32.5 V	12.21 A	38.6 V	13.09 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 × 1134 × 30 mm (77.2 × 44.6 × 1.18 in)
Weight	27.0 kg (59.5 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)	Portrait: 300 mm (11.8 in) (+) / 200 mm (7.9 in) (-); landscape: 1250 mm (49.2 in)*
Connector	T6 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.

ELECTRICAL DATA

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 %

* Power Bifaciality = $Pmax_{rear}$ / $Pmax_{front}$, both $Pmax_{rear}$ and $Pmax_{front}$ are tested under STC, Bifaciality Tolerance: ± 5 %

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

* 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.

PARTNER SECTION

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