



# TOPBiHiKu7

N-type Bifacial TOPCon Technology 620 W ~ 650 W CS7L-620|625|630|635|640|645|650TB-AG



#### **MORE POWER**



Module power up to 650 W Module efficiency up to 23.0 %



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**



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 IEC 62941: 2019 / Photovoltaic module manufacturing quality system

# **PRODUCT CERTIFICATES\***

IEC 61215 / IEC 61730 / CE / INMETRO / MCS / UKCA / RETIE / CGC CEC listed (US California) / FSEC (US Florida) UL 61730 / IEC 61701 / IEC 62716 / IEC 60068-2-68 UNI 9177 Reaction to Fire: Class 1 / Take-e-way













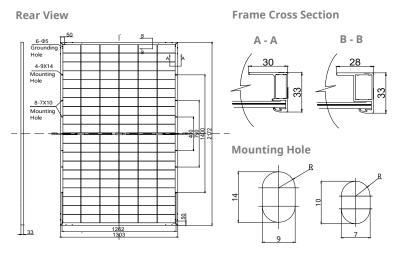
\* The specific certificates applicable to different module types and markets will vary. and therefore not all of the certifications listed herein will simultaneously apply to the products you order or use. Please contact your local Canadian Solar sales representative to confirm the specific certificates 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 22 years, it has successfully delivered over 110 GW of premium-quality solar modules across the world.

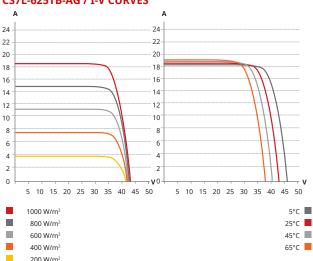
Years

<sup>\*</sup> For detailed information, please refer to the Installation Manual.

#### **ENGINEERING DRAWING (mm)**



## CS7L-625TB-AG / I-V CURVES



#### **ELECTRICAL DATA | STC\***

		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)			Short Circuit Current (Isc)	Module Efficiency
CS7L-620TB-AG		620 W	35.7 V	17.37 A	42.9 V	18.31 A	21.9%
D:6 : 1	5%	651 W	35.7 V	18.24 A	42.9 V	19.23 A	23.0%
Bifacial Gain**	10%	682 W	35.7 V	19.11 A	42.9 V	20.14 A	24.1%
	20%	744 W	35.7 V	20.84 A	42.9 V	21.97 A	26.3%
CS7L-625TB	-AG	625 W	35.9 V	17.41 A	43.1 V	18.36 A	22.1%
D:6 : 1	5%	656 W	35.9 V	18.28 A	43.1 V	19.28 A	23.2%
Bifacial Gain**	10%	688 W	35.9 V	19.15 A	43.1 V	20.20 A	24.3%
Gaill	20%	750 W	35.9 V	20.89 A	43.1 V	22.03 A	26.5%
CS7L-630TB	-AG	630 W	36.1 V	17.46 A	43.3 V	18.41 A	22.3%
D:6 : 1	5%	662 W	36.1 V	18.33 A	43.3 V	19.33 A	23.4%
Bifacial Gain**	10%	693 W	36.1 V	19.21 A	43.3 V	20.25 A	24.5%
daiii	20%	756 W	36.1 V	20.95 A	43.3 V	22.09 A	26.7%
CS7L-635TB	-AG	635 W	36.3 V	17.50 A	43.5 V	18.46 A	22.4%
D:6 : 1	5%	667 W	36.3 V	18.38 A	43.5 V	19.38 A	23.6%
Bifacial Gain**	10%	699 W	36.3 V	19.25 A	43.5 V	20.31 A	24.7%
daiii	20%	762 W	36.3 V	21.00 A	43.5 V	22.15 A	26.9%
CS7L-640TB-AG		640 W	36.5 V	17.54 A	43.7 V	18.51 A	22.6%
D:6 : 1	5%	672 W	36.5 V	18.42 A	43.7 V	19.44 A	23.7%
Bifacial Gain**	10%	704 W	36.5 V	19.29 A	43.7 V	20.36 A	24.9%
daiii	20%	768 W	36.5 V	21.05 A	43.7 V	22.21 A	27.1%
CS7L-645TB-AG		645 W	36.7 V	17.58 A	43.9 V	18.56 A	22.8%
Bifacial Gain**	5%	677 W	36.7 V	18.46 A	43.9 V	19.49 A	23.9%
	10%	710 W	36.7 V	19.34 A	43.9 V	20.42 A	25.1%
	20%	774 W	36.7 V	21.10 A	43.9 V	22.27 A	27.3%
CS7L-650TB-AG		650 W	36.9 V	17.62 A	44.1 V	18.61 A	23.0%
	5%	683 W	36.9 V	18.50 A	44.1 V	19.54 A	24.1%
Bifacial Gain**	10%	715 W	36.9 V	19.38 A	44.1 V	20.47 A	25.3%
Gaill	20%	780 W	36.9 V	21.14 A	44.1 V	22.33 A	27.6%

<sup>\*</sup> Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

#### FI FCTRICAL DATA

SS C (IEC61730)

<sup>\*</sup> Power Bifaciality =  $\overline{Pmax}_{rear}$  /  $Pmax_{front}$ , both  $Pmax_{rear}$ , and  $Pmax_{front}$  are tested under STC, Bifaciality Tolerance:  $\pm$  5 %

# \* 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.

1...

# **ELECTRICAL DATA | NMOT\***

	Nominal	Opt.	Opt. Ope-	Open	Short
	Max.	Operating		Circuit	Circuit
	Power (Pmax)	Voltage (Vmp)	Current (Imp)	Voltage (Voc)	Current (Isc)
	(FIIIax)	(vilip)	(IIIIb)	(۷00)	(150)
CS7L-620TB-AG	469 W	33.8 V	13.89 A	40.6 V	14.77 A
CS7L-625TB-AG	473 W	33.9 V	13.93 A	40.8 V	14.81 A
CS7L-630TB-AG	476 W	34.1 V	13.96 A	41.0 V	14.85 A
CS7L-635TB-AG	480 W	34.3 V	13.99 A	41.2 V	14.89 A
CS7L-640TB-AG	484 W	34.5 V	14.03 A	41.4 V	14.93 A
CS7L-645TB-AG	488 W	34.7 V	14.06 A	41.6 V	14.97 A
CS7L-650TB-AG	492 W	34.9 V	14.09 A	41.8 V	15.01 A
* Under Nominal Mod	dule Operatio	g Temperature	(NMOT) irrad	iance of 800	W/m²,

<sup>\*</sup> 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	120 [2 x (10 x 6)]
Dimensions	2172 × 1303 × 33 mm (85.5 × 51.3 × 1.30 in)
Weight	34.5 kg (76.1 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	4.0 mm <sup>2</sup> (IEC), 12 AWG (UL)
Cable Length (Including Connector)	360 mm (14.2 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	33 pieces
Per Container (40' HQ)	594 pieces or 528 pieces (only for US & Canada)

<sup>\*</sup> 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**


<sup>\*\*</sup> 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.