



TOPCon Gen3 Bifacial Module

TOPBiHiKu6

CS6.3-66TB-645 | 650 | 655 | 660 | 665 (IEC1500V)



MORE POWER



Module power up to 665 W
Module efficiency up to 24.6 %



Innovative circuit design & advanced cell technology,
significantly increase power generation



Up to 90% Power Bifaciality,
more power from the back side



Lower temperature coefficient (Pmax): -0.26%/°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



Excellent anti-LeTID & anti-PID performance



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 0.35%**

*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 / MCS / UKCA / CGC
IEC 61701 / IEC 62716 / IEC 60068-2-68
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.

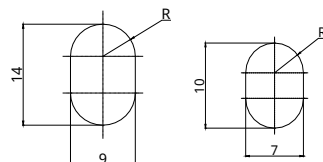
CSI Solar Co., Ltd., a BNEF Tier 1 and S&P Global Tier 1 module manufacturer, is a leading provider of integrated solar and energy storage solutions. With over 25 years of expertise, the company has delivered more than 180 GW of premium-quality solar modules worldwide.

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

Canadian Solar MSS (Australia) Pty Ltd.

Level 27, 101 Collins Street, Melbourne VIC 3000, Australia, sales.au@csisolar.com, www.csisolar.com/au

Rear View



		Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
	645	645 W	42.3 V	15.26 A	49.8 V	16.13 A	23.9%
Bifacial Gain**	5%	677 W	42.3 V	16.02 A	49.8 V	16.94 A	25.1%
	10%	710 W	42.3 V	16.79 A	49.8 V	17.74 A	26.3%
	20%	774 W	42.3 V	18.31 A	49.8 V	19.36 A	28.7%
	650	650 W	42.5 V	15.31 A	50.0 V	16.19 A	24.1%
Bifacial Gain**	5%	683 W	42.5 V	16.08 A	50.0 V	17.00 A	25.3%
	10%	715 W	42.5 V	16.84 A	50.0 V	17.81 A	26.5%
	20%	780 W	42.5 V	18.37 A	50.0 V	19.43 A	28.9%
	655	655 W	42.7 V	15.36 A	50.2 V	16.25 A	24.2%
Bifacial Gain**	5%	688 W	42.7 V	16.13 A	50.2 V	17.06 A	25.5%
	10%	721 W	42.7 V	16.90 A	50.2 V	17.88 A	26.7%
	20%	786 W	42.7 V	18.43 A	50.2 V	19.50 A	29.1%
	660	660 W	42.9 V	15.41 A	50.4 V	16.31 A	24.4%
Bifacial Gain**	5%	693 W	42.9 V	16.18 A	50.4 V	17.13 A	25.7%
	10%	726 W	42.9 V	16.95 A	50.4 V	17.94 A	26.9%
	20%	792 W	42.9 V	18.49 A	50.4 V	19.57 A	29.3%
	665	665 W	43.1 V	15.45 A	50.6 V	16.37 A	24.6%
Bifacial Gain**	5%	698 W	43.1 V	16.22 A	50.6 V	17.19 A	25.8%
	10%	732 W	43.1 V	17.00 A	50.6 V	18.01 A	27.1%
	20%	798 W	43.1 V	18.54 A	50.6 V	19.64 A	29.5%

**** 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)
Module Fire Performance	CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	85 %

* 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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	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Cur- rent (Isc)
645	490 W	40.2 V	12.20 A	47.4 V	13.00 A
650	494 W	40.4 V	12.24 A	47.6 V	13.04 A
655	498 W	40.6 V	12.27 A	47.8 V	13.09 A
660	502 W	40.8 V	12.31 A	48.0 V	13.14 A
665	506 W	41.0 V	12.35 A	48.1 V	13.19 A

MECHANICAL DATA

Specification	Data
Cell Type	TOPCon cells
Cell Arrangement	264 [2 x (22 x 6)]
Dimensions	2382 × 1134 × 30 mm (93.8 × 44.6 × 1.18 in)
Weight	32.8 kg (72.3 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 ² (IEC)
Cable Length (Including Connector)	600 mm (23.6 in) (+) / 400 mm (15.7 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.

Specification	Data
Temperature Coefficient (Pmax)	-0.26 % / °C
Temperature Coefficient (Voc)	-0.22 % / °C
Temperature Coefficient (Isc)	0.045 % / °C
Nominal Module Operating Temperature	41 ± 3°C

PARTNER SECTION

