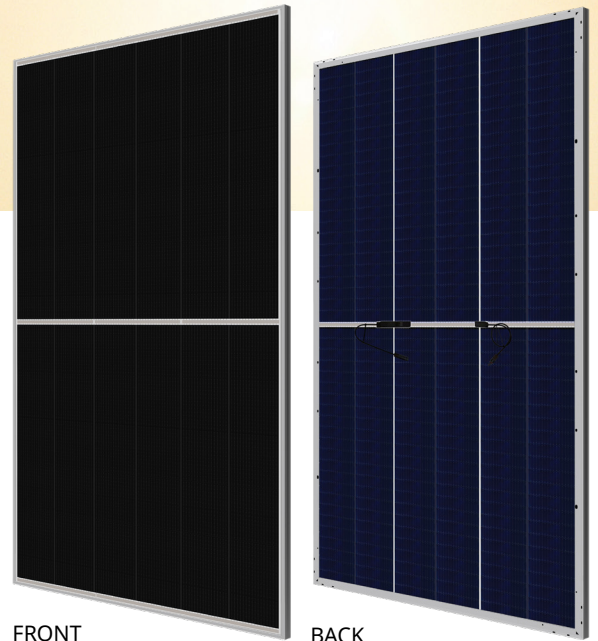




TOPCon Gen3 Bifacial Module

TOPBiHiKu6

CS6.3-66TB-630 | 635 | 640 | 645 | 650 | 655 | 660 |
665 | 670 | 675 (IEC1500V)



MORE POWER



Module power up to 675 W
Module efficiency up to 25.0 %



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



Up to 85% Power Bifaciality,
more power from the back side



Lower temperature coefficient (Pmax): $-0.26\%/^{\circ}\text{C}$,
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



Excellent anti-LeTID & anti-PID performance



Downward test load up to +5400 Pa,
Upward test 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.

**The value is only for the front side of the module and is not applicable to the rear side of the modules. The rear side value will be no less than the actual power of front side multiplied to the bifaciality factor.

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

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.

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 175 GW of premium-quality solar modules worldwide.

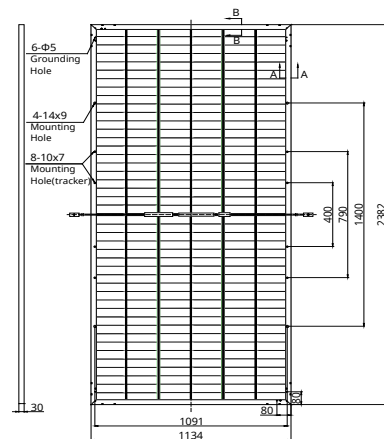
* For detailed information, please refer to the Installation Manual.

Canadian Solar MSS (Australia) Pty Ltd.

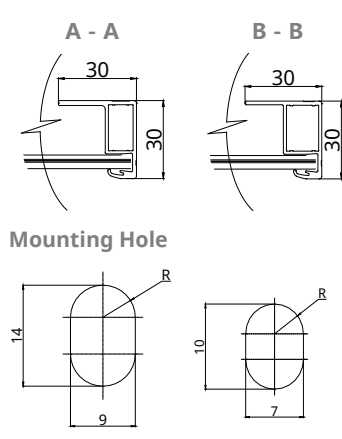
Level 27, 101 Collins Street, Melbourne VIC 3000, Australia, sales.au@csisolar.com, www.csisolar.com/au

ENGINEERING DRAWING (mm)

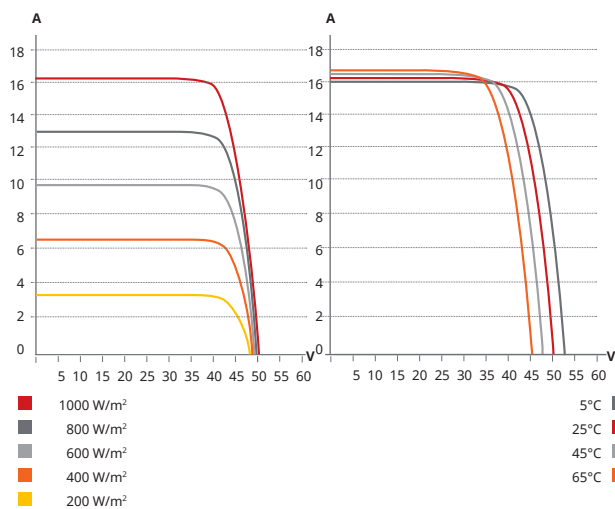
Rear View



Frame Cross Section



CS6.3-66TB-655 (IEC1500V) / I-V CURVES



ELECTRICAL DATA (STC & BNPI & BSI) * | CS6.3-66TB-xxx (IEC1500V) (xxx=630-655)

Testing Conditions	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI
Nominal Max. Power - Pmax (Wp)	630	702	#	635	708	#	640	713	#	645	719	#	650	725	#	655	730	#
Opt. Operating Voltage - Vmp (V)	41.6	#	#	41.9	#	#	42.1	#	#	42.3	#	#	42.5	#	#	42.7	#	#
Opt. Operating Current - Imp (A)	15.16	#	#	15.18	#	#	15.23	#	#	15.26	#	#	15.31	#	#	15.36	#	#
Open Circuit Voltage - Voc (V)	49.2	49.5	#	49.4	49.7	#	49.6	49.9	#	49.8	50.1	#	50.0	50.3	#	50.2	50.5	#
Short Circuit Current - Isc (A)	15.95	17.78	20.02	16.01	17.85	20.09	16.07	17.91	20.17	16.13	17.98	20.24	16.19	18.05	20.32	16.25	18.11	20.39
Module Efficiency (%)	23.3			23.5			23.7			23.9			24.1			24.2		

* STC: Irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. BNPI: Irradiance of front 1000 W/m², rear 135 W/m². BSI: Irradiance of front 1000 W/m², rear 300 W/m².
Measurement uncertainty: ±3 % (Pmax), ±5% (Voc, Isc). The “#” symbol in the table represents no value.

Electrical DATA (5% & 10% Bifacial Gain**)

Bifacial Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Total Equivalent Power - Pmax (Wp)	662	693	667	699	672	704	677	710	683	715	688	721	693	725	698	731
Opt. Operating Voltage - Vmp (V)	41.6	41.6	41.9	41.9	42.1	42.1	42.3	42.3	42.5	42.5	42.7	42.7	42.9	42.9	43.1	43.1
Opt. Operating Current - Imp (A)	15.92	16.68	15.94	16.70	15.99	16.75	16.02	16.79	16.08	16.84	16.13	16.90	16.19	16.95	16.24	17.01
Open Circuit Voltage - Voc (V)	49.2	49.2	49.4	49.4	49.6	49.6	49.8	49.8	50.0	50.0	50.2	50.2	50.4	50.4	50.6	50.6
Short Circuit Current - Isc (A)	16.75	17.55	16.81	17.61	16.87	17.68	16.94	17.74	17.00	17.81	17.06	17.88	17.19	18.00	17.14	17.95
Module Efficiency (%)	24.5	25.7	24.7	25.9	24.9	26.1	25.1	26.3	25.3	26.5	25.5	26.7	25.8	27.0	25.9	27.2

** 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.

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 mm² (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.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Module (T98)max	70°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 %

* Power Bifaciality = $P_{max, rear} / P_{max, front}$, both $P_{max, rear}$ and $P_{max, front}$ are tested under STC. Bifaciality coefficient (±5%): $\phi Voc=99\%$, $\phi Isc=85\%$, $\phi Pmax=85\%$.

TEMPERATURE CHARACTERISTICS

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

* 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.

Canadian Solar MSS (Australia) Pty Ltd.

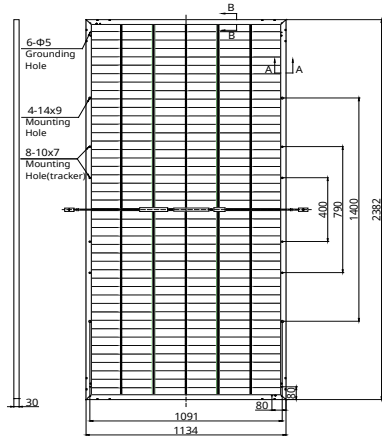
Level 27, 101 Collins Street, Melbourne VIC 3000, Australia, sales.au@csisolar.com, www.csisolar.com/au

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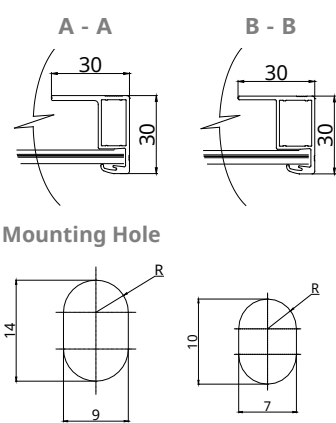
* Manufactured and assembled in China and Thailand.

ENGINEERING DRAWING (mm)

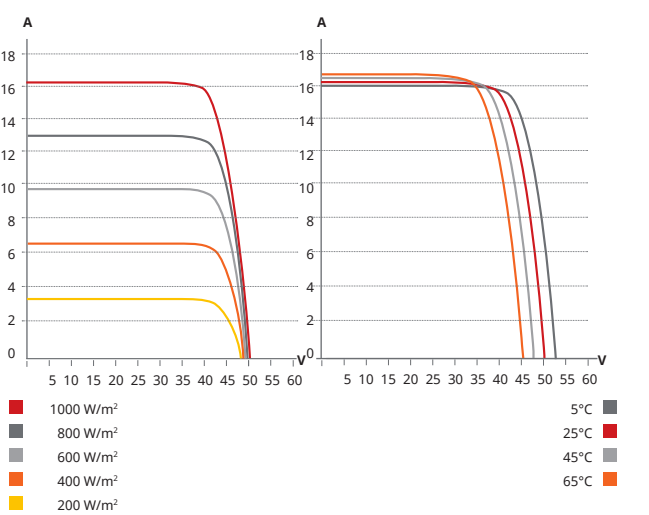
Rear View



Frame Cross Section



CS6.3-66TB-655 (IEC1500V) / I-V CURVES



ELECTRICAL DATA (STC & BNPI & BSI) * | CS6.3-66TB-xxx (IEC1500V) (xxx=660-675)

Testing Conditions	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI	STC	BNPI	BSI
Nominal Max. Power - Pmax (Wp)	660	736	#	665	741	#	670	747	#	675	752	#
Opt. Operating Voltage - Vmp (V)	42.9	#	#	43.1	#	#	43.3	#	#	43.5	#	#
Opt. Operating Current - Imp (A)	15.41	#	#	15.45	#	#	15.50	#	#	15.54	#	#
Open Circuit Voltage - Voc (V)	50.4	50.7	#	50.6	50.9	#	50.8	51.1	#	51.0	51.3	#
Short Circuit Current - Isc (A)	16.31	18.18	20.47	16.37	18.25	20.54	16.43	18.32	20.62	16.49	18.38	20.69
Module Efficiency (%)	24.4			24.6			24.8			25.0		

* STC: Irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C. BNPI: Irradiance of front 1000 W/m², rear 135 W/m². BSI: Irradiance of front 1000 W/m², rear 300 W/m².
Measurement uncertainty: ±3 % (Pmax), ±5% (Voc, Isc). The “#” symbol in the table represents no value.

Electrical DATA (5% & 10% Bifacial Gain**)

Bifacial Gain	5%	10%	5%	10%	5%	10%	5%	10%
Total Equivalent Power - Pmax (Wp)	693	726	698	732	704	737	709	743
Opt. Operating Voltage - Vmp (V)	42.9	42.9	43.1	43.1	43.3	43.3	43.5	43.5
Opt. Operating Current - Imp (A)	16.18	16.95	16.22	17.00	16.28	17.05	16.32	17.09
Open Circuit Voltage - Voc (V)	50.4	50.4	50.6	50.6	50.8	50.8	51.0	51.0
Short Circuit Current - Isc (A)	17.13	17.94	17.19	18.01	17.25	18.07	17.31	18.14
Module Efficiency (%)	25.7	26.9	25.8	27.1	26.1	27.3	26.2	27.5

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Cable	4.0 mm ² (IEC)
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Connector	Tlian: T6 Stäubli: PV-KST4-EVO2A/6I, PV-KBT4-EVO2A/6I
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