

TOPBiHiKu6

N-type Bifacial TOPCon Technology

565 W ~ 595 W



SOLAR INVERTER MODEL & SPECIFICATION

12 Years Enhanced Product Warranty on Materials and Workmanship*

30 Years Linear Power Performance Warranty*

FEATURES

CS6W-565|570|575|580|585|590|595TB-AG

MORE POWER

595 W Module power up to 595 W
Module efficiency up to 23.0 %

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

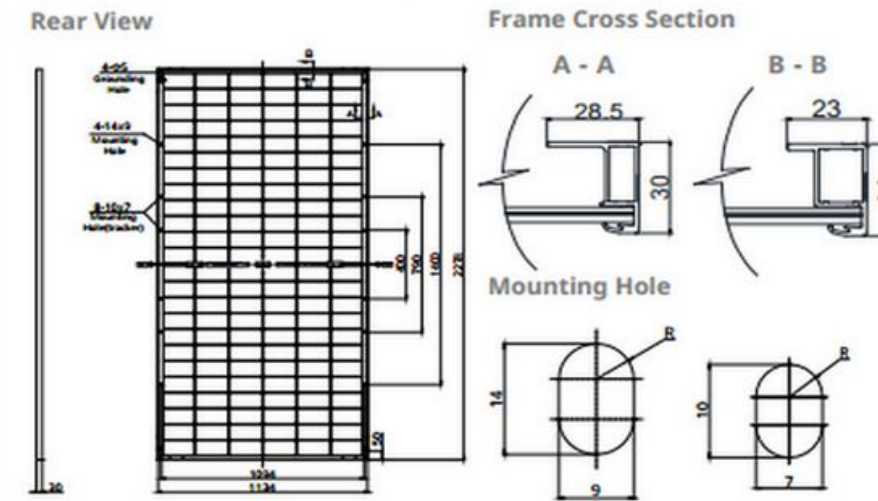
CSI Solar Co., Ltd. is committed to providing high quality solar photovoltaic modules, solar energy and battery storage solutions to customers. The company was recognized as the No. 1 module supplier for quality and performance/price ratio in the IHS Module Customer Insight Survey. Over the past 22 years, it has successfully delivered over 110 GW of premium-quality solar modules across the world.

MORE RELIABLE

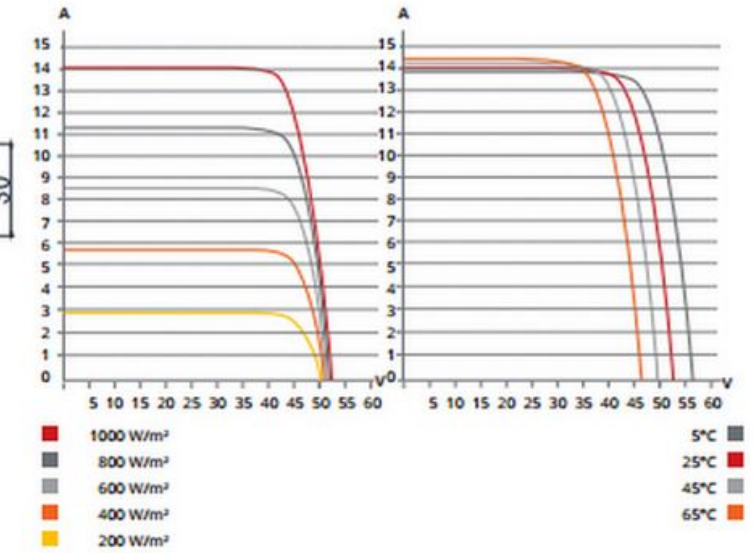
Minimizes micro-crack impacts

Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*

ENGINEERING DRAWING (mm)



CS6W-590TB-AG / I-V CURVES



ELECTRICAL DATA | STC*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency	
CS6W-565TB-AG	565 W	42.5 V	13.30 A	51.6 V	13.75 A	21.9%	
Bifacial Gain**	5%	593 W	42.5 V	13.97 A	51.6 V	14.44 A	23.0%
	10%	622 W	42.5 V	14.63 A	51.6 V	15.13 A	24.1%
	20%	678 W	42.5 V	15.96 A	51.6 V	16.50 A	26.2%
CS6W-570TB-AG	570 W	42.7 V	13.35 A	51.8 V	13.81 A	22.1%	
Bifacial Gain**	5%	599 W	42.7 V	14.02 A	51.8 V	14.50 A	23.2%
	10%	627 W	42.7 V	14.69 A	51.8 V	15.19 A	24.3%
	20%	684 W	42.7 V	16.02 A	51.8 V	16.57 A	26.5%
CS6W-575TB-AG	575 W	42.9 V	13.41 A	52.0 V	13.88 A	22.3%	
Bifacial Gain**	5%	604 W	42.9 V	14.08 A	52.0 V	14.57 A	23.4%
	10%	633 W	42.9 V	14.75 A	52.0 V	15.27 A	24.5%
	20%	690 W	42.9 V	16.09 A	52.0 V	16.66 A	26.7%
CS6W-580TB-AG	580 W	43.1 V	13.46 A	52.2 V	13.93 A	22.5%	
Bifacial Gain**	5%	609 W	43.1 V	14.13 A	52.2 V	14.63 A	23.6%
	10%	638 W	43.1 V	14.81 A	52.2 V	15.32 A	24.7%
	20%	696 W	43.1 V	16.15 A	52.2 V	16.72 A	26.9%
CS6W-585TB-AG	585 W	43.3 V	13.52 A	52.4 V	14.00 A	22.6%	
Bifacial Gain**	5%	614 W	43.3 V	14.20 A	52.4 V	14.70 A	23.8%
	10%	644 W	43.3 V	14.87 A	52.4 V	15.40 A	24.9%
	20%	702 W	43.3 V	16.22 A	52.4 V	16.80 A	27.2%
CS6W-590TB-AG	590 W	43.5 V	13.57 A	52.6 V	14.06 A	22.8%	
Bifacial Gain**	5%	620 W	43.5 V	14.25 A	52.6 V	14.76 A	24.0%
	10%	649 W	43.5 V	14.93 A	52.6 V	15.47 A	25.1%
	20%	708 W	43.5 V	16.28 A	52.6 V	16.87 A	27.4%
CS6W-595TB-AG	595 W	43.7 V	13.62 A	52.8 V	14.12 A	23.0%	
Bifacial Gain**	5%	625 W	43.7 V	14.30 A	52.8 V	14.83 A	24.2%
	10%	655 W	43.7 V	14.98 A	52.8 V	15.53 A	25.4%
	20%	714 W	43.7 V	16.34 A	52.8 V	16.94 A	27.6%

* 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

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL) or 1000 V (IEC/UL)
Module Fire Performance	TYPE 29 (UL 61730) or CLASS C (IEC61730)
Max. Series Fuse Rating	30 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	80 %

* Power Bifaciality = Pmax_{rear} / Pmax_{total}, both Pmax_{rear} and Pmax_{total} are tested under STC, Bifaciality Tolerance: ± 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.

ELECTRICAL DATA | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS6W-565TB-AG	427 W	40.2 V	10.64 A	48.9 V	11.09 A
CS6W-570TB-AG	431 W	40.4 V	10.68 A	49.0 V	11.14 A
CS6W-575TB-AG	435 W	40.6 V	10.72 A	49.2 V	11.19 A
CS6W-580TB-AG	439 W	40.7 V	10.77 A	49.4 V	11.23 A
CS6W-585TB-AG	443 W	40.9 V	10.81 A	49.6 V	11.29 A
CS6W-590TB-AG	446 W	41.1 V	10.85 A	49.8 V	11.34 A
CS6W-595TB-AG	450 W	41.3 V	10.89 A	50.0 V	11.39 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	144 [2 x (12 x 6)]
Dimensions	2278 x 1134 x 30 mm (89.7 x 44.6 x 1.18 in)
Weight	32.3 kg (71.2 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), 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	35 pieces
Per Container (40' HQ)	700 pieces or 560 pieces (only for US & Canada)

* 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

