

## Preliminary Technical Information Sheet

# **CanadianSolar**

## HiHero

Bifacial N-type Heterojunction Technology  $620~W \sim 645~W$  CS6.2-66HB-620|625|630|635|640|645H

#### **MORE POWER**



Module power up to 645 W Module efficiency up to 23.9 %



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



No B-O LID, excellent anti-LeTID & anti-PID performance. Low power degradation, high energy yield



Leading temperature coefficient (Pmax): -0.24%/°C, increases energy yield in hot climate



Better shading tolerance

### 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 4000 Pa\*

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



Industry Leading Product Warranty on Materials and Workmanship\*

**BACK** 



**Linear Power Performance Warranty\*** 

1st year power degradation no more than 1% Subsequent annual power degradation no more than 0.35%

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 $\hbox{*According to the applicable Canadian Solar Limited Warranty Statement}.$ 

#### **MANAGEMENT SYSTEM CERTIFICATES\***

**FRONT** 

ISO 9001: 2015 / Quality management system ISO 14001: 2015 / Standards for environmental management system ISO 45001: 2018 / International standards for occupational health & safety

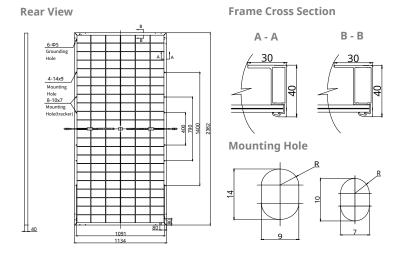
IEC 62941: 2019 / Photovoltaic module manufacturing quality system

#### **PRODUCT CERTIFICATES\***



**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 23 years, it has successfully delivered over 150 GW of premium-quality solar modules across the world.

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



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

	Nominal Max. Power (Pmax)		Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)	Module Efficiency
CS6.2-66HB-620	H 620 W	42.6 V	14.58 A	50.1 V	15.65 A	23.0%
5%	651 W	42.6 V	15.31 A	50.1 V	16.43 A	24.1%
Bifacial Gain**	682 W	42.6 V	16.04 A	50.1 V	17.22 A	25.2%
209	6 744 W	42.6 V	17.50 A	50.1 V	18.78 A	27.5%
CS6.2-66HB-625	H 625 W	42.6 V	14.69 A	50.1 V	15.75 A	23.1%
5%	656 W	42.6 V	15.42 A	50.1 V	16.54 A	24.3%
Bifacial Gain**	688 W	42.6 V	16.16 A	50.1 V	17.33 A	25.5%
209	6 750 W	42.6 V	17.63 A	50.1 V	18.90 A	27.8%
CS6.2-66HB-630	H 630 W	42.6 V	14.79 A	50.2 V	15.82 A	23.3%
5%	662 W	42.6 V	15.53 A	50.2 V	16.61 A	24.5%
Bifacial Gain**	693 W	42.6 V	16.27 A	50.2 V	17.40 A	25.7%
209	6 756 W	42.6 V	17.75 A	50.2 V	18.98 A	28.0%
CS6.2-66HB-635	H 635 W	42.7 V	14.88 A	50.3 V	15.92 A	23.5%
5%	667 W	42.7 V	15.62 A	50.3 V	16.72 A	24.7%
Bifacial Gain**	699 W	42.7 V	16.37 A	50.3 V	17.51 A	25.9%
209	6 762 W	42.7 V	17.86 A	50.3 V	19.10 A	28.2%
CS6.2-66HB-640	H 640 W	42.7 V	14.99 A	50.4 V	16.01 A	23.7%
5%	672 W	42.7 V	15.74 A	50.4 V	16.81 A	24.9%
Bifacial Gain**	6 704 W	42.7 V	16.49 A	50.4 V	17.61 A	26.1%
209	6 768 W	42.7 V	17.99 A	50.4 V	19.21 A	28.4%
CS6.2-66HB-645	H 645 W	42.8 V	15.07 A	50.4 V	16.13 A	23.9%
5%	677 W	42.8 V	15.82 A	50.4 V	16.94 A	25.1%
Bifacial Gain**	6 710 W	42.8 V	16.58 A	50.4 V	17.74 A	26.3%
209	6 774 W	42.8 V	18.08 A	50.4 V	19.36 A	28.7%

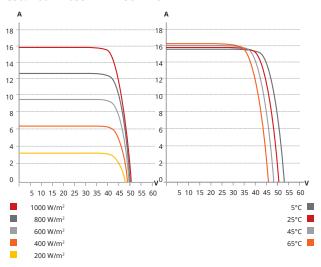
<sup>\*</sup> Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C

#### **ELECTRICAL DATA**

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL)
Madula Fina Danfannana	TYPE 29 (UL 61730)
Module Fire Performance	or CLASS C (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	85 %

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

#### CS6.2-66HB-635H / I-V CURVES



#### **ELECTRICAL DATA | NMOT\***

	Nominal		Opt.	Open	Short
	Max.		Operating		
	Power (Pmax)	Voltage (Vmp)	Current (Imp)	Voltage (Voc)	Current (Isc)
	(I IIIux)	(vilip)	(IIIIb)	(100)	(130)
CS6.2-66HB-620H	473 W	40.6 V	11.65 A	47.6 V	12.62 A
CS6.2-66HB-625H	477 W	40.6 V	11.74 A	47.6 V	12.70 A
CS6.2-66HB-630H	481 W	40.6 V	11.83 A	47.7 V	12.76 A
CS6.2-66HB-635H	484 W	40.7 V	11.90 A	47.8 V	12.84 A
CS6.2-66HB-640H	488 W	40.7 V	11.99 A	47.9 V	12.91 A
CS6.2-66HB-645H	492 W	40.8 V	12.06 A	47.9 V	13.01 A
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<sup>\*</sup> Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

#### **MECHANICAL DATA**

Specification	Data
Cell Type	HJT cells
Cell Arrangement	132 [2 x (11 x 6) ]
Dimensions	2382 × 1134 × 40 mm (93.8 × 44.6 × 1.57 in)
Weight	33.4 kg (73.6 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)	300 mm (11.8 in) (+) / 200 mm (7.9 in) (-) or customized length*
Connector	T6 or MC4-EVO2 or MC4-EVO2A
Per Pallet	27 pieces
Per Container (40' HQ)	540 pieces or 486 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)	-0.24 % / °C
Temperature Coefficient (Voc)	-0.23 % / °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.

<sup>\*</sup> 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.