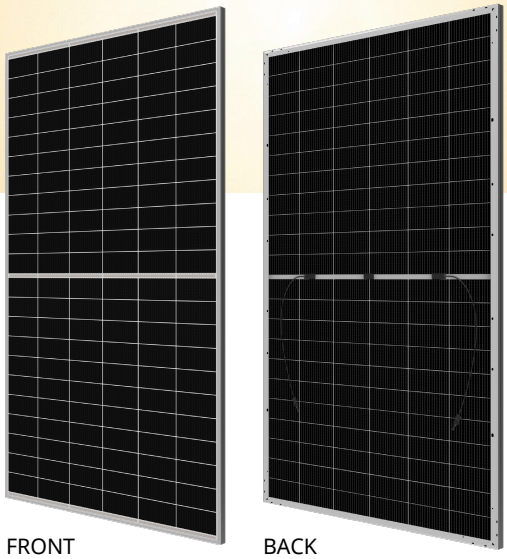
NEW

Preliminary Technical Information Sheet

CanadianSolar



FRONT BACK

HiHero Anti-Hail

Bifacial N-type Heterojunction Technology

620 W ~ 645 W

CS6.2-66HB-620|625|630|635|640|645HP

MORE POWER

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

EXTRA POWER — 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 55 mm diameter according to IEC 61215 standard

Minimizes micro-crack impacts

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

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

15 Years **Industry Leading 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*

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

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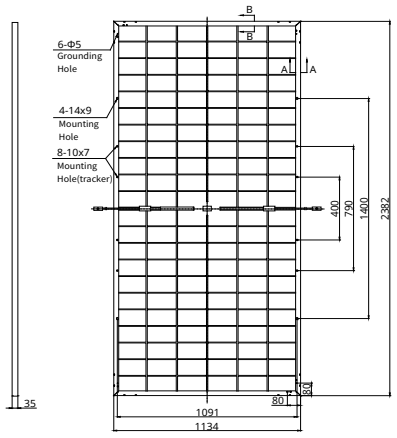
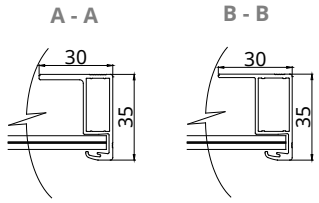
ENGINEERING DRAWING (mm)

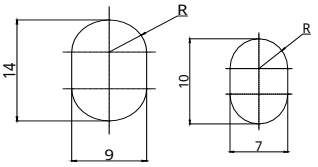
Rear View



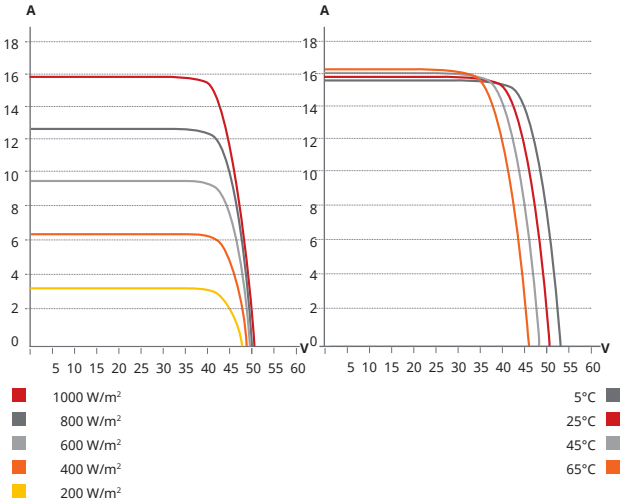
Frame Cross Section



Mounting Hole



CS6.2-66HB-635HP / 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
CS6.2-66HB-620HP	620 W	42.6 V	14.58 A	50.1 V	15.65 A	23.0%
Bifacial Gain** 5%	651 W	42.6 V	15.31 A	50.1 V	16.43 A	24.1%
Bifacial Gain** 10%	682 W	42.6 V	16.04 A	50.1 V	17.22 A	25.2%
Bifacial Gain** 20%	744 W	42.6 V	17.50 A	50.1 V	18.78 A	27.5%
CS6.2-66HB-625HP	625 W	42.6 V	14.69 A	50.1 V	15.75 A	23.1%
Bifacial Gain** 5%	656 W	42.6 V	15.42 A	50.1 V	16.54 A	24.3%
Bifacial Gain** 10%	688 W	42.6 V	16.16 A	50.1 V	17.33 A	25.5%
Bifacial Gain** 20%	750 W	42.6 V	17.63 A	50.1 V	18.90 A	27.8%
CS6.2-66HB-630HP	630 W	42.6 V	14.79 A	50.2 V	15.82 A	23.3%
Bifacial Gain** 5%	662 W	42.6 V	15.53 A	50.2 V	16.61 A	24.5%
Bifacial Gain** 10%	693 W	42.6 V	16.27 A	50.2 V	17.40 A	25.7%
Bifacial Gain** 20%	756 W	42.6 V	17.75 A	50.2 V	18.98 A	28.0%
CS6.2-66HB-635HP	635 W	42.7 V	14.88 A	50.3 V	15.92 A	23.5%
Bifacial Gain** 5%	667 W	42.7 V	15.62 A	50.3 V	16.72 A	24.7%
Bifacial Gain** 10%	699 W	42.7 V	16.37 A	50.3 V	17.51 A	25.9%
Bifacial Gain** 20%	762 W	42.7 V	17.86 A	50.3 V	19.10 A	28.2%
CS6.2-66HB-640HP	640 W	42.7 V	14.99 A	50.4 V	16.01 A	23.7%
Bifacial Gain** 5%	672 W	42.7 V	15.74 A	50.4 V	16.81 A	24.9%
Bifacial Gain** 10%	704 W	42.7 V	16.49 A	50.4 V	17.61 A	26.1%
Bifacial Gain** 20%	768 W	42.7 V	17.99 A	50.4 V	19.21 A	28.4%
CS6.2-66HB-645HP	645 W	42.8 V	15.07 A	50.4 V	16.13 A	23.9%
Bifacial Gain** 5%	677 W	42.8 V	15.82 A	50.4 V	16.94 A	25.1%
Bifacial Gain** 10%	710 W	42.8 V	16.58 A	50.4 V	17.74 A	26.3%
Bifacial Gain** 20%	774 W	42.8 V	18.08 A	50.4 V	19.36 A	28.7%

* 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 | NMOT*

	Nominal Max. Power (Pmax)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Current (Isc)
CS6.2-66HB-620HP	473 W	40.6 V	11.65 A	47.6 V	12.62 A
CS6.2-66HB-625HP	477 W	40.6 V	11.74 A	47.6 V	12.70 A
CS6.2-66HB-630HP	481 W	40.6 V	11.83 A	47.7 V	12.76 A
CS6.2-66HB-635HP	484 W	40.7 V	11.90 A	47.8 V	12.84 A
CS6.2-66HB-640HP	488 W	40.7 V	11.99 A	47.9 V	12.91 A
CS6.2-66HB-645HP	492 W	40.8 V	12.06 A	47.9 V	13.01 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	HJT cells
Cell Arrangement	132 [2 x (11 x 6)]
Dimensions	2382 × 1134 × 35 mm (93.8 × 44.6 × 1.38 in)
Weight	40.6 kg (89.5 lbs)
Front Glass	2.5 mm tempered glass with anti-reflective coating
Back Glass	2.5 mm tempered 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	31 pieces
Per Container (40' HQ)	558 pieces or 434 pieces (only for US & Canada)

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

ELECTRICAL DATA

Operating Temperature	-40°C ~ +85°C
Max. System Voltage	1500 V (IEC/UL)
Module Fire Performance	TYPE 30 (UL 61730) or CLASS A (IEC61730)
Max. Series Fuse Rating	35 A
Protection Class	Class II
Power Tolerance	0 ~ + 10 W
Power Bifaciality*	85 %

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

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

* 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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