



# 285W~305W

5BB-Monocrystalline PV Module

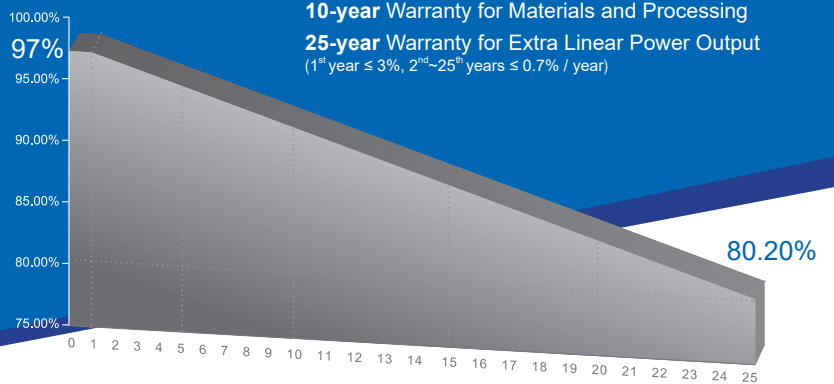
CHSM6610M Series

CHSM6610M/HV Series

CHSM6610M max system voltage 1000V standard

CHSM6610M/HV max system voltage 1500V standard

<b>Tier 1</b> Bloomberg	<b>No.1</b> PHOTON	MunichRe Insured	<b>DNV GL</b> 2018 TOP Performance
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Optional: Black frame designed for the certain projects and applications (e.g. residential rooftop and so on)

## COMPREHENSIVE CERTIFICATES



First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

## KEY FEATURES

- +5W OUTPUT POSITIVE TOLERANCE**  
Guaranteed 0~+5W positive tolerance ensures power output reliability.
- INNOVATIONAL 5-BUSBAR CELLS**  
Reduces the cell series resistance and internal stress, decreases the risk of micro-crack and improves the module output.
- EXCELLENT MECHANICAL LOAD CAPABILITY**  
Certified to withstand: snow load (5400 Pa) and wind load (2400 Pa).
- LOWER TEMPERATURE COEFFICIENT**  
Improved temperature coefficient decreases power loss in the high temperature application.

Designed for the Australian Market



**ASTRONERGY**  
A CHNT COMPANY

## ELECTRICAL SPECIFICATIONS

STC rated output ( $P_{mpp}$ )*	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp
Rated voltage ( $V_{mpp}$ ) at STC	31.80 V	32.15 V	32.38 V	32.59 V	32.80 V
Rated current ( $I_{mpp}$ ) at STC	8.97 A	9.03 A	9.12 A	9.21 A	9.30 A
Open circuit voltage ( $V_{oc}$ ) at STC	39.15 V	39.45 V	39.81 V	39.90 V	40.05 V
Short circuit current ( $I_{sc}$ ) at STC	9.46 A	9.54 A	9.59 A	9.68 A	9.72 A
Module efficiency	17.5%	17.8%	18.1%	18.4%	18.7%
Rated output ( $P_{mpp}$ ) at NOCT	209.4 Wp	213.1 Wp	216.8 Wp	220.5 Wp	224.1 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	29.27 V	29.58 V	29.79 V	30.00 V	30.21 V
Rated current ( $I_{mpp}$ ) at NOCT	7.16 A	7.20 A	7.28 A	7.35 A	7.42 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	36.32 V	36.60 V	36.93 V	37.01 V	37.15 V
Short circuit current ( $I_{sc}$ ) at NOCT	7.61 A	7.67 A	7.71 A	7.79 A	7.82 A
Temperature coefficient ( $P_{mpp}$ )	- 0.380%/°C				
Temperature coefficient ( $I_{sc}$ )	+0.042%/°C				
Temperature coefficient ( $V_{oc}$ )	- 0.284%/°C				
Normal operating cell temperature (NOCT)	46±2°C				
Maximum system voltage (IEC)	1000V <sub>DC</sub> or 1500V <sub>DC</sub>				
Number of diodes	3				
Junction box IP rating	IP 67				
Maximum series fuse rating	15A (< 300Wp) , 20A (≥ 300Wp)				

\* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

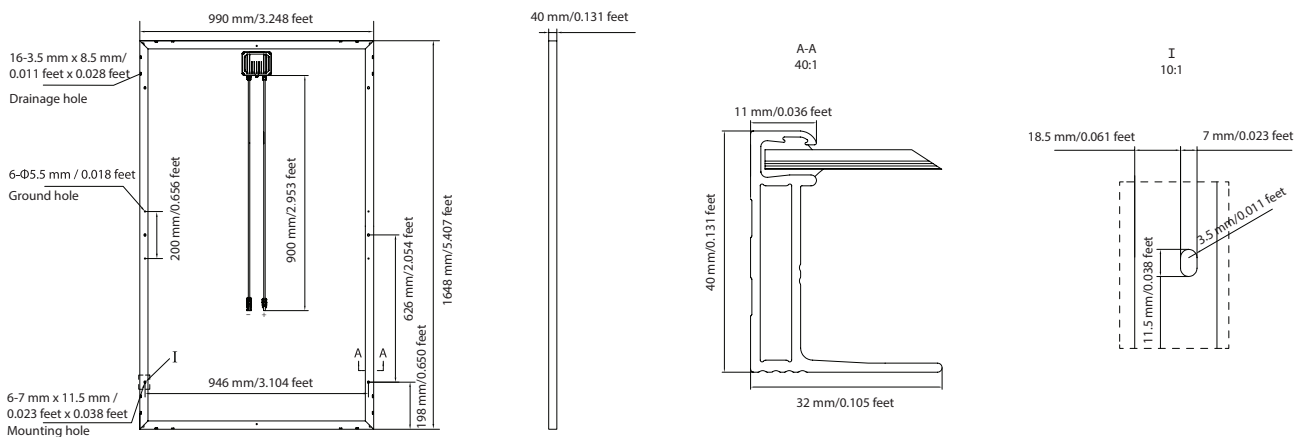
## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1648 x 990 x 40 mm 64.88 x 38.98 x 1.57 in
Frame technology	Aluminum, silver / black anodized
Module composition	Glass / EVA / Backsheet (white)
Front glass thickness	3.2 mm / 0.13 in
① Cable length (IEC)	900 mm / 35.43 in
Cable diameter (IEC)	4 mm <sup>2</sup>
② Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC)	C
Connector type (IEC)	MH5(by Minghe) or PV-HCB40(by Chint Solar ) or PV-KST4-EVO2/XY(by Stäubli ) or PV-KBT4-EVO2/XY(by Stäubli)

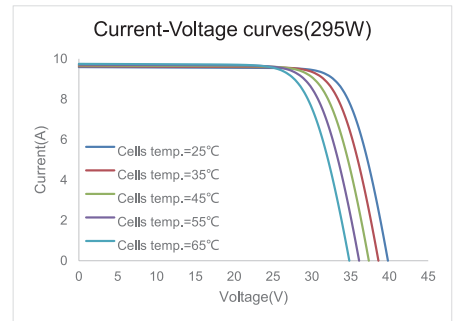
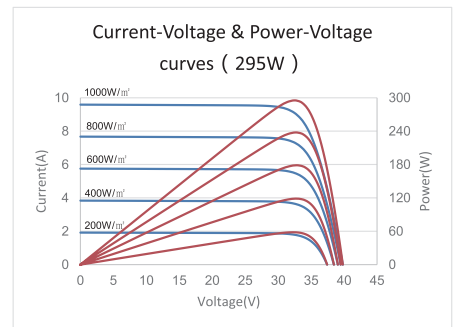
① Option: 900(+)/600(-) mm or 1000 mm for defined projects in advance.

② Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## MODULE DIMENSION DETAILS



## CURVE



## PACKING SPECIFICATIONS

① Weight (module only)	18.6 kg / 41.01 lbs
② Packing unit	27 pcs / box
Weight of packing unit (for 40'HQ container)	541 kg / 1358 lbs
Number of modules per 40'HQ container	756 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

Made in Zhejiang, Jiangsu and Anhui of China, Made in Sincan/ Ankara of Turkey

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