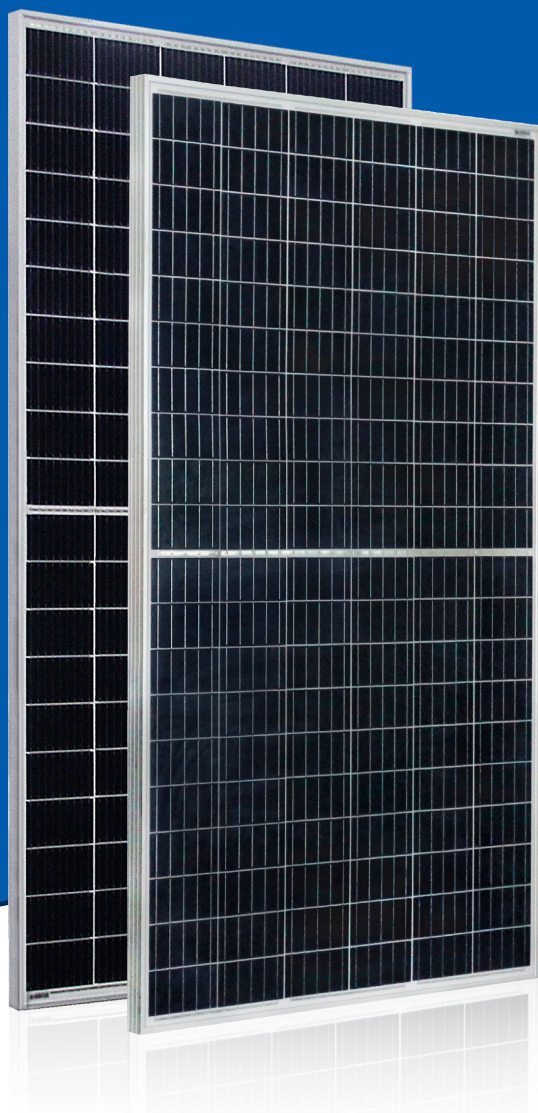


AstroSemi™

Incredible Power for Small Body



Multi-Busbar Module could be the option

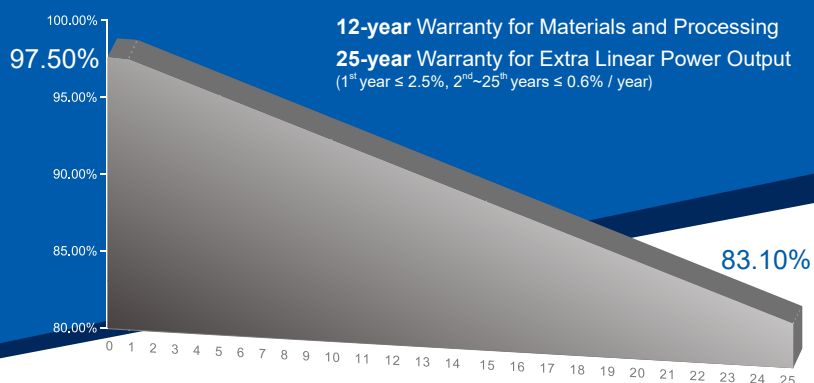
COMPREHENSIVE CERTIFICATES



300W~315W

Polycrystalline PV Module

CHSM60P-HC Series (158.75)



KEY FEATURES

- 
+5W OUTPUT POSITIVE TOLERANCE
 Guaranteed 0~+5W positive tolerance ensures power output reliability.
- 
INNOVATIONAL HALF-CELL TECHNOLOGY
 Improves the module output, decreases the risk of micro-crack, enhances the module reliability.
- 
REDUCE SHADOW LOSS
 Effectively reduces the effect of shadow on the module surface.
- 
REDUCE INTERNAL MISMATCH LOSS
 Reduces mismatch loss and improves output.

Special for Australian Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

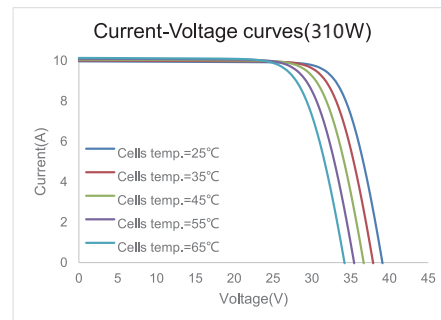
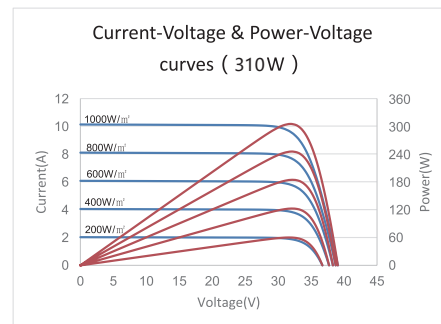
STC rated output (P_{mpp})*	300 Wp	305 Wp	310 Wp	315 Wp
Rated voltage (V_{mpp}) at STC	32.09 V	32.26 V	32.51 V	32.76 V
Rated current (I_{mpp}) at STC	9.35 A	9.46 A	9.54 A	9.62 A
Open circuit voltage (V_{oc}) at STC	38.52 V	38.75 V	39.01 V	39.27 V
Short circuit current (I_{sc}) at STC	10.01 A	10.05 A	10.08 A	10.12 A
Module efficiency	17.7%	18.0%	18.3%	18.6%
Rated output (P_{mpp}) at NMOT	223.5 Wp	227.2 Wp	230.9 Wp	234.6 Wp
Rated voltage (V_{mpp}) at NMOT	29.78 V	29.94 V	30.17 V	30.40 V
Rated current (I_{mpp}) at NMOT	7.50 A	7.59 A	7.65 A	7.72 A
Open circuit voltage (V_{oc}) at NMOT	36.09 V	36.30 V	36.55 V	36.79 V
Short circuit current (I_{sc}) at NMOT	8.08 A	8.11 A	8.14 A	8.17 A
Temperature coefficient (P_{mpp})	- 0.3550%/°C			
Temperature coefficient (I_{sc})	+0.0415%/°C			
Temperature coefficient (V_{oc})	- 0.2729%/°C			
Nominal module operating temperature (NMOT)	44±2°C			
Maximum system voltage (IEC/UL)	1500V _{DC}			
Number of diodes	3			
Junction box IP rating	IP 67			
Maximum series fuse rating	20 A			

* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1692 x 1002 x 35 mm 66.61 x 39.45 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Front glass thickness	3.2 mm / 0.13 in
Cable length (IEC/UL)	Portrait: 350 mm (13.78 in) Landscape: 1100 mm (43.31 in)
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	PV-CY03L (Logo:CHUANG YUAN) or PV-HCB40(Logo:XINHUI) or MH5 (Logo:MINGHE) or PV-KST4-EVO2/XY-UR,PV-KBT4-EVO2/XY-UR(Logo:MC)

① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

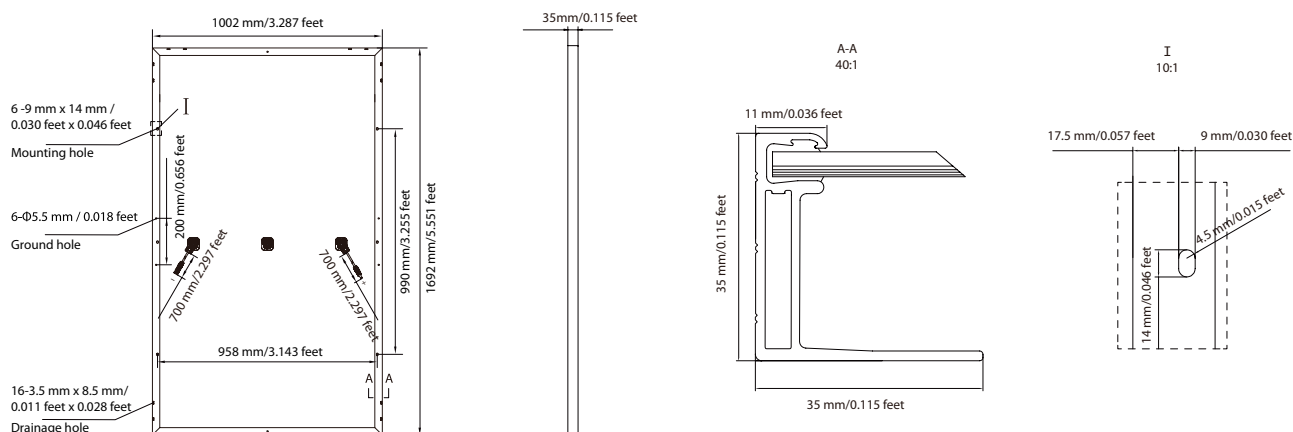
PACKING SPECIFICATIONS

① Weight (module only)	19.1 kg / 42.11 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	631 kg / 139 lbs
Number of modules per 40'HQ container	806 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

MODULE DIMENSION DETAILS



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

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