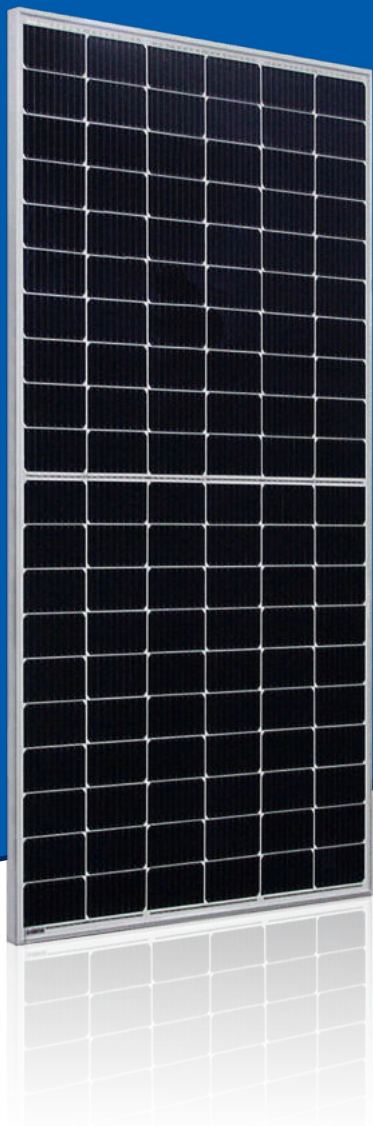


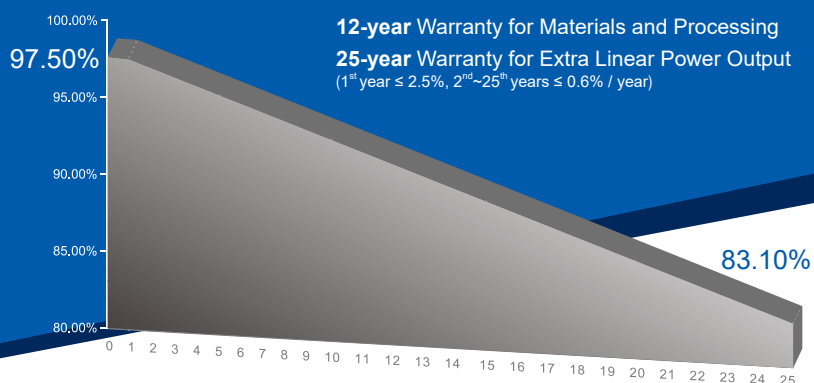
AstroSemi™

Incredible Power for Small Body



360W~380W

Monocrystalline PV Module
CHSM60M-HC Series (166)



KEY FEATURES



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.

COMPREHENSIVE CERTIFICATES



Special for Australian Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

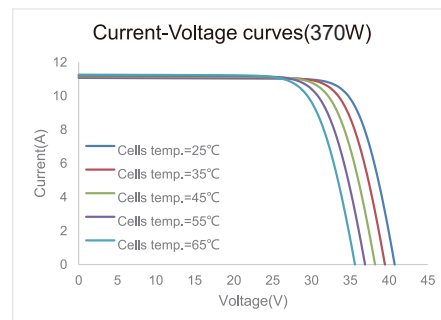
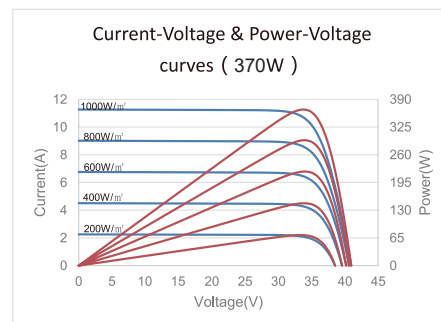
STC rated output (P_{mpp})*	360 Wp	365 Wp	370 Wp	375 Wp	380 Wp
Rated voltage (V_{mpp}) at STC	33.49 V	33.73 V	33.98 V	34.28 V	34.51 V
Rated current (I_{mpp}) at STC	10.75 A	10.82 A	10.89 A	10.94 A	11.01 A
Open circuit voltage (V_{oc}) at STC	40.14V	40.41 V	40.75 V	41.05 V	41.34 V
Short circuit current (I_{sc}) at STC	11.21 A	11.29 A	11.35 A	11.42 A	11.49 A
Module efficiency	19.5%	19.7%	20.0%	20.3%	20.5%
Rated output (P_{mpp}) at NMOT	268.5 Wp	272.2 Wp	275.9 Wp	279.6 Wp	283.4 Wp
Rated voltage (V_{mpp}) at NMOT	31.22 V	31.45 V	31.68 V	31.96 V	32.18 V
Rated current (I_{mpp}) at NMOT	8.60 A	8.65 A	8.71 A	8.75 A	8.81 A
Open circuit voltage (V_{oc}) at NMOT	37.74 V	37.99 V	38.31 V	38.59 V	38.87 V
Short circuit current (I_{sc}) at NMOT	9.02 A	9.08 A	9.13 A	9.19 A	9.24 A
Temperature coefficient (P_{mpp})	- 0.3438%/°C				
Temperature coefficient (I_{sc})	+0.0353%/°C				
Temperature coefficient (V_{oc})	- 0.2722%/°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)	1765 x 1048 x 35 mm 69.49 x 41.26 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: 1200 mm (47.24 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

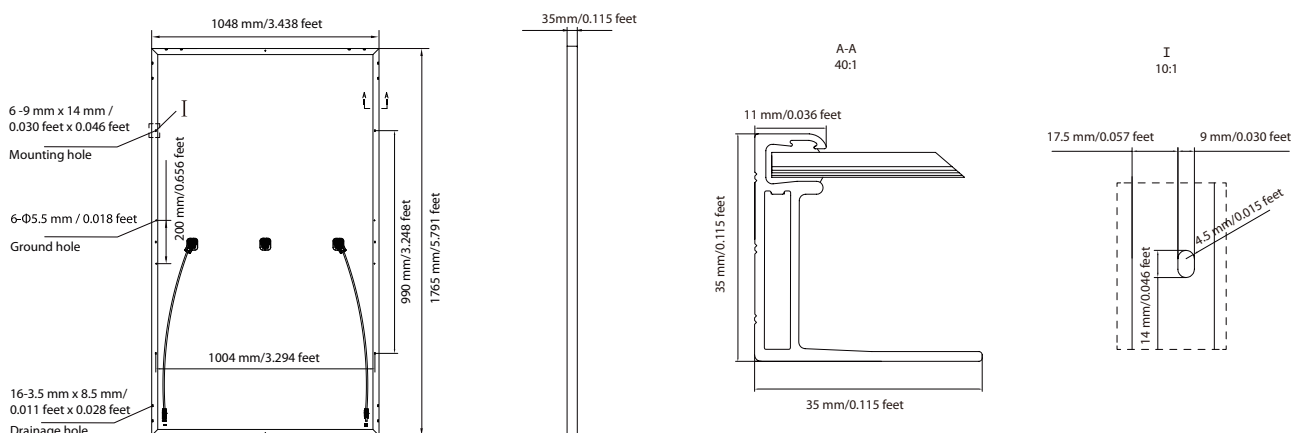
PACKING SPECIFICATIONS

① Weight (module only)	20.0 kg / 44.09 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	659 kg / 1453 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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