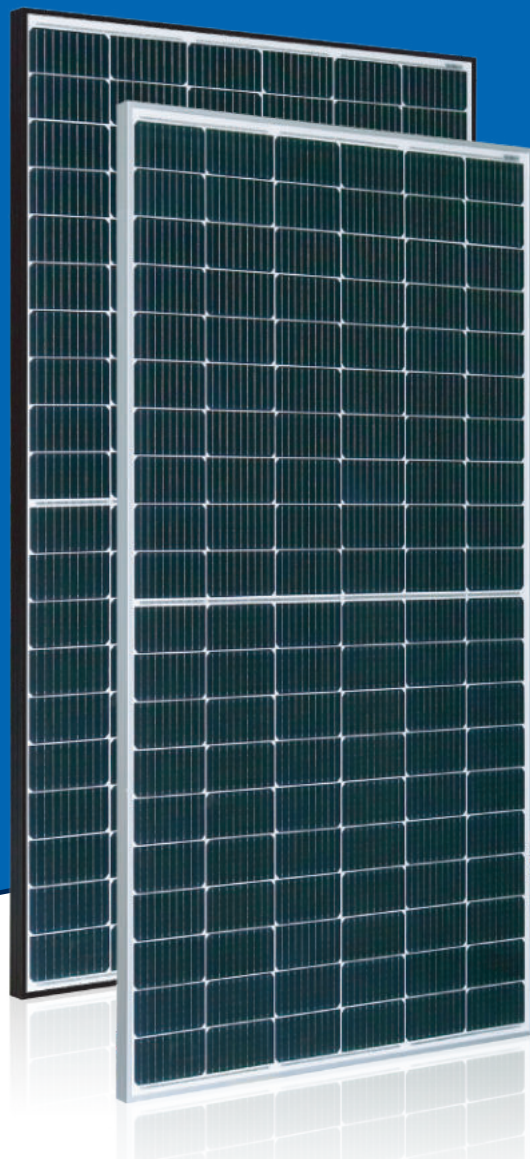


ASTRO 4 Semi

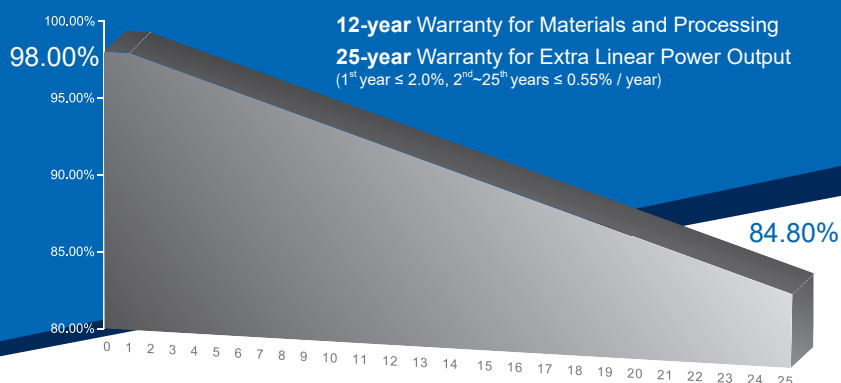
Create Sustainable and Efficient Green Energy



360W~380W

Monocrystalline PV Module

CHSM60M-HC Series (166)



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance to ensure power output.



INNOVATIONAL HALF-CUT TECHNOLOGY

Better shading tolerance, higher reliability.



INNOVATIONAL MULTI-BUSBAR TECHNOLOGY

Higher light absorption, lower risk of microcrack.



SUPER PERC+ CELL TECHNOLOGY

Higher module power and module efficiency, lower power degradation.

COMPREHENSIVE CERTIFICATES



Designed for the Australian Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

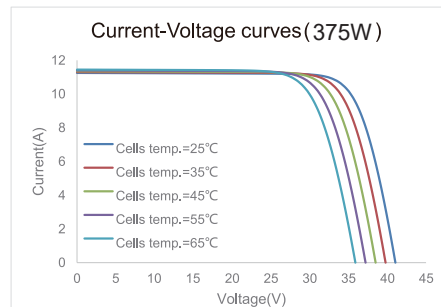
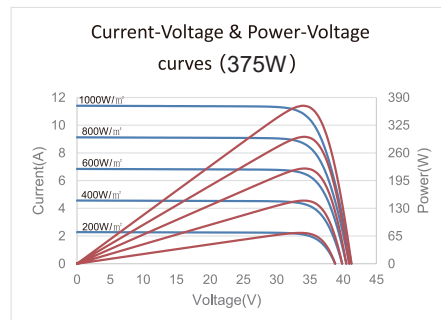
STC rated output (P_{mpp})	360 Wp	365 Wp	370 Wp	375 Wp	380 Wp
Rated voltage (V_{mpp}) at STC	33.49 V	33.73 V	33.98 V	34.28 V	34.51 V
Rated current (I_{mpp}) at STC	10.75 A	10.82 A	10.89 A	10.94 A	11.01 A
Open circuit voltage (V_{oc}) at STC	40.14 V	40.41 V	40.75 V	41.05 V	41.34 V
Short circuit current (I_{sc}) at STC	11.21 A	11.29 A	11.35 A	11.42 A	11.49 A
Module efficiency	19.8%	20.0%	20.3%	20.6%	20.9%
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})	- 0.34%/°C				
Temperature coefficient (I_{sc})	+0.035%/°C				
Temperature coefficient (V_{oc})	- 0.27%/°C				
Nominal module operating temperature (NMOT)	41±2°C				
Maximum system voltage (IEC/UL)	1500V _{DC}				
Number of diodes	3				
Junction box IP rating	IP 68				
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)	1755 x 1038 x 30 mm
Frame technology	Aluminum, silver or black anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1200 mm
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 4 (UL)
Connector type (IEC/UL)	HCB40 / MC4-EVO2

① Refer to Astronergy crystalline installation manual or contact technical department.

Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

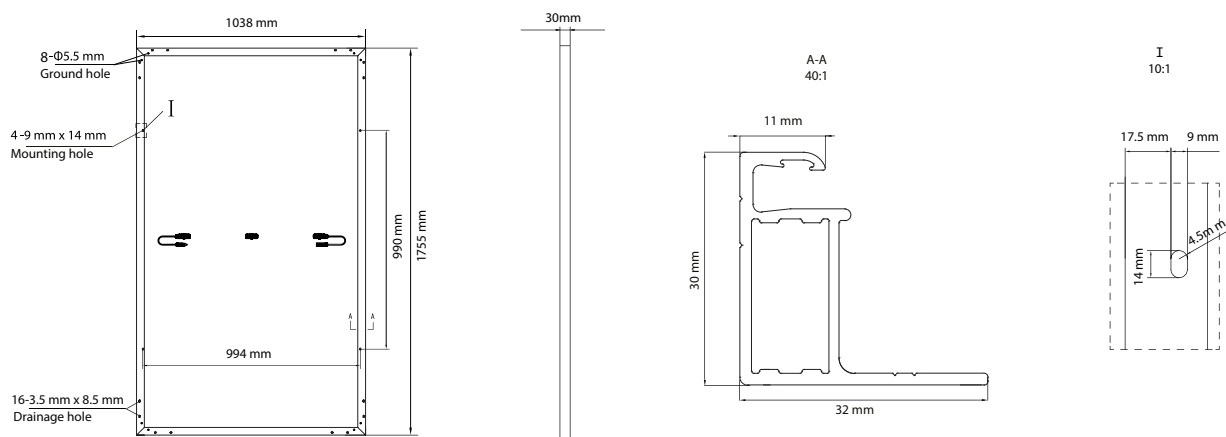
PACKING SPECIFICATIONS

① Module Weight	19.5 kg
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	743 kg
Number of modules per 40'HQ container	936 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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<http://www.astronergy.com.au>

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