

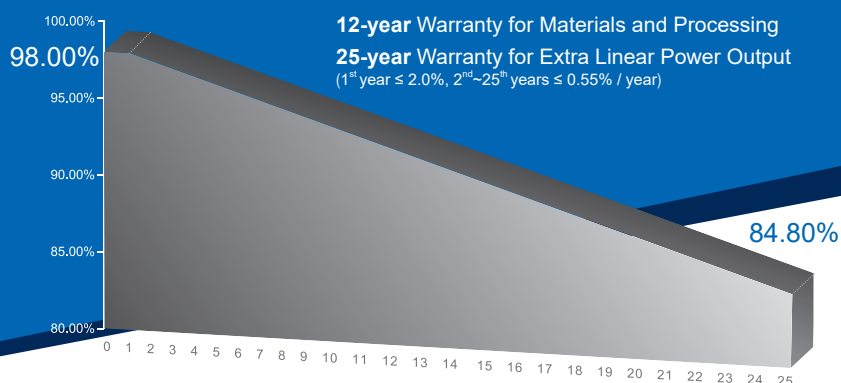
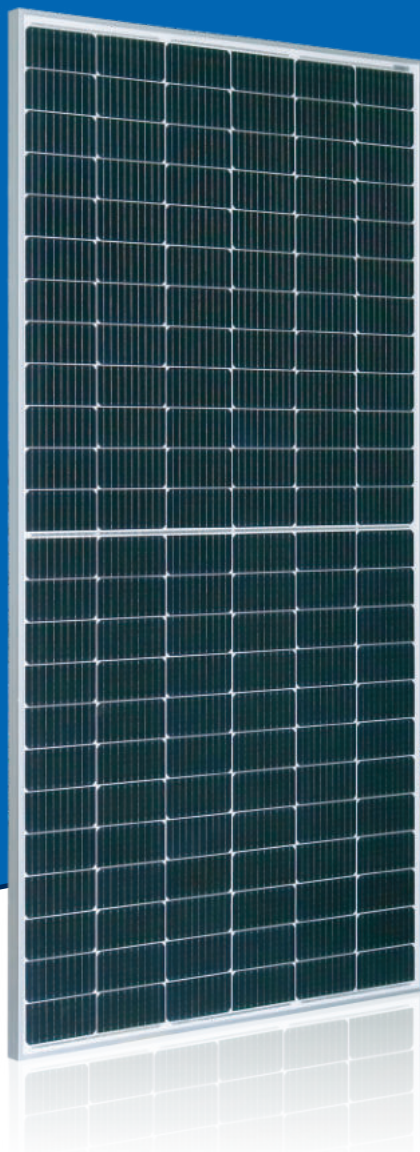
ASTRO 4 Semi

Create Sustainable and Efficient Green Energy

435W~455W

Monocrystalline PV Module

CHSM72M-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

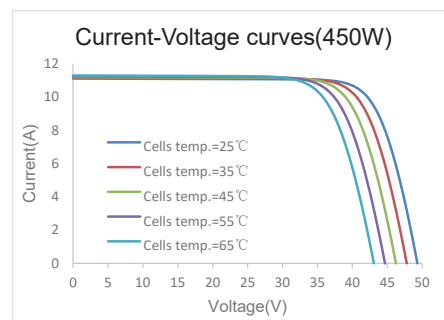
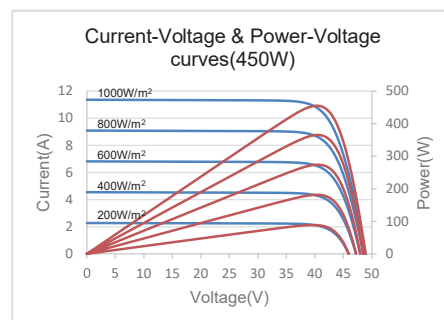
STC rated output (P_{mpp})	435 Wp	440 Wp	445 Wp	450 Wp	455 Wp
Rated voltage (V_{mpp}) at STC	40.65 V	40.85 V	41.05 V	41.32 V	41.51 V
Rated current (I_{mpp}) at STC	10.70 A	10.77 A	10.84 A	10.89 A	10.96 A
Open circuit voltage (V_{oc}) at STC	48.25 V	48.50 V	48.80 V	49.05 V	49.35 V
Short circuit current (I_{sc}) at STC	11.16 A	11.24 A	11.30 A	11.37 A	11.44 A
Module efficiency	20.0%	20.2%	20.5%	20.7%	20.9%
Rated output (P_{mpp}) at NMOT	323.4 Wp	327.1 Wp	330.8 Wp	334.5 Wp	338.2 Wp
Rated voltage (V_{mpp}) at NMOT	37.75 V	37.93 V	38.12 V	38.37 V	38.55 V
Rated current (I_{mpp}) at NMOT	8.57 A	8.62 A	8.68 A	8.72 A	8.78 A
Open circuit voltage (V_{oc}) at NMOT	45.19 V	45.42 V	45.70 V	45.94 V	46.22 V
Short circuit current (I_{sc}) at NMOT	8.99 A	9.06 A	9.10 A	9.16 A	9.22 A
Temperature coefficient (P_{mpp})	- 0.35%/°C				
Temperature coefficient (I_{sc})	+0.035%/°C				
Temperature coefficient (V_{oc})	- 0.28%/°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)	2094 x 1038 x 35 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1300 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.

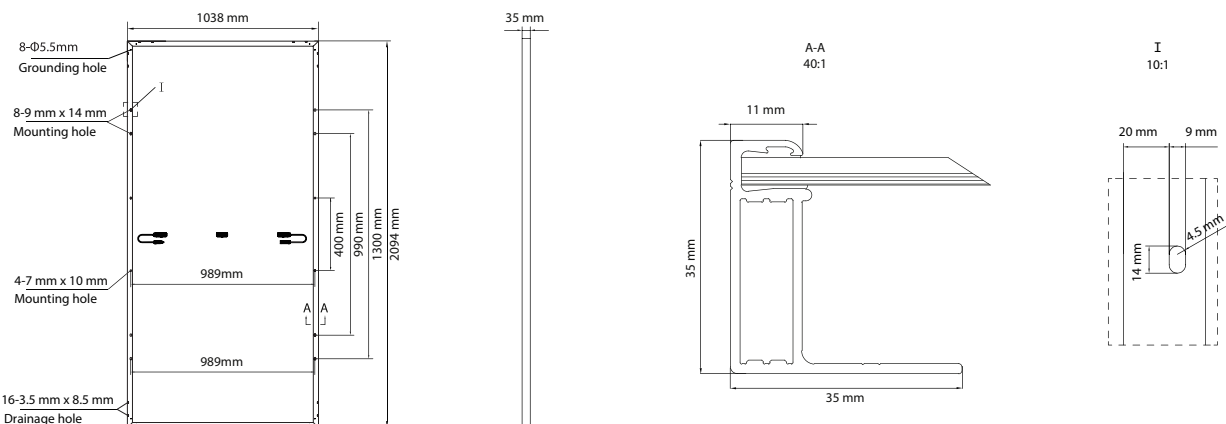
PACKING SPECIFICATIONS

① Module Weight	23.5 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	772 kg
Number of modules per 40'HQ container	682 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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