

ASTRO 4 Semi

Create Sustainable and Efficient Green Energy



ASTRONERGY
A CHINT COMPANY

370W~380W

Monocrystalline PV Module
CHSM60M-HC Series (166)



KEY FEATURES

+5W

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.



PID RESISTANCE
Excellent PID resistance.

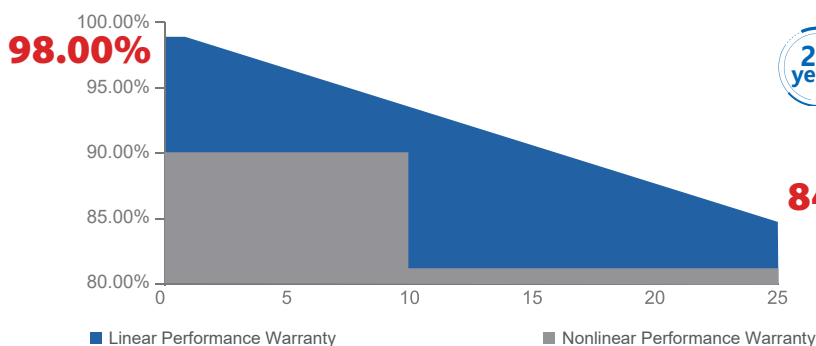
WARRANTY



Warranty for Materials and Processing



Warranty for Extra Linear Power Output
(1st year ≤ 2.0%, 2nd~25th years ≤ 0.55% / year)



For Global Market



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

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	370 Wp	375 Wp	380 Wp
Rated voltage (V_{mpp}) at STC	33.98 V	34.28 V	34.51 V
Rated current (I_{mpp}) at STC	10.89 A	10.94 A	11.01 A
Open circuit voltage (V_{oc}) at STC	40.75 V	41.05 V	41.34 V
Short circuit current (I_{sc}) at STC	11.35 A	11.42 A	11.49 A
Module efficiency	20.3%	20.6%	20.9%
Rated output (P_{mpp}) at NMOT	275.9 Wp	279.6 Wp	283.4 Wp
Rated voltage (V_{mpp}) at NMOT	31.68 V	31.96 V	32.18 V
Rated current (I_{mpp}) at NMOT	8.71 A	8.75 A	8.81 A
Open circuit voltage (V_{oc}) at NMOT	38.31 V	38.59 V	38.87 V
Short circuit current (I_{sc}) at NMOT	9.13 A	9.19 A	9.24 A
Temperature coefficient (P_{mpp})	- 0.35%/°C		
Temperature coefficient (I_{sc})	+ 0.050%/°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		

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

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1755 x 1038 x 35 mm
Frame technology	Aluminum, 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 (optional)

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

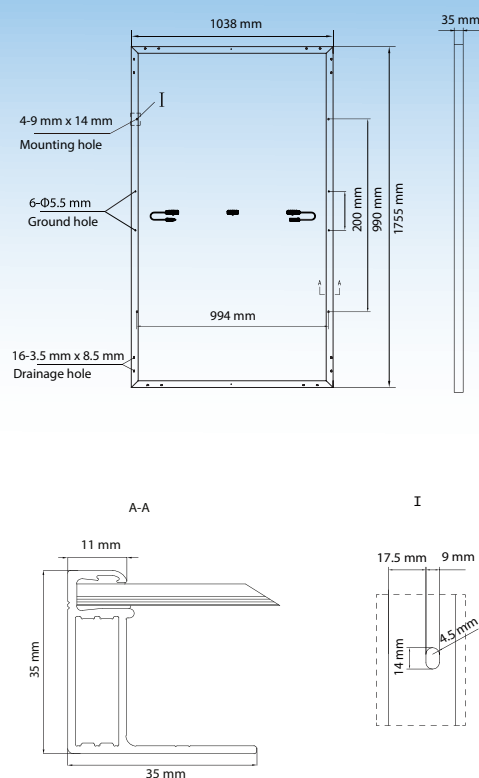
PACKING SPECIFICATIONS

^① Module Weight	19.8 kg
^② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	647 kg
Number of modules per 40'HQ container	806 pcs

^① Tolerance +/- 1.0kg

^② Subject to sales contract

MODULE DIMENSION DETAILS



CURVE

