

ASTRO 4 Semi

Create Sustainable and Efficient Green Energy



ASTRONERGY
A CHINT COMPANY

360W~375W

Monocrystalline PV Module
CHSM60M(BL)-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.



THE-STATE-OF-THE-ART APPEARANCE

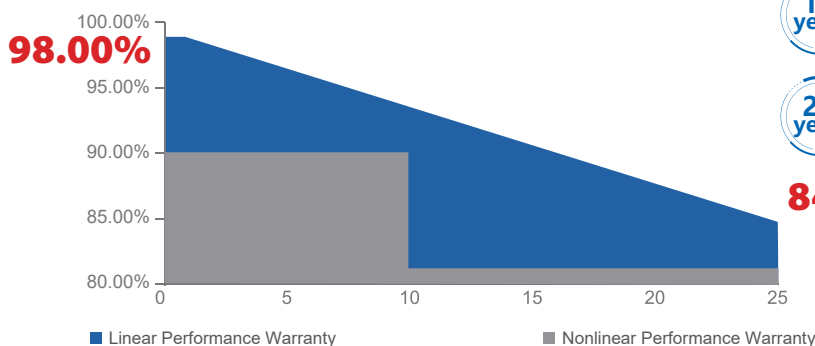
Full black designed for a better aesthetic appearance and building integration.



PID RESISTANCE

Excellent PID resistance.

WARRANTY



Warranty for Materials and Processing
(Standard)



Warranty for Materials and Processing
(Optional, special for rooftop market)



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

84.80%

For Global Market



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

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	360 Wp	365 Wp	370 Wp	375 Wp
Rated voltage (V_{mpp}) at STC	33.49 V	33.73 V	33.98 V	34.28 V
Rated current (I_{mpp}) at STC	10.75 A	10.82 A	10.89 A	10.94 A
Open circuit voltage (V_{oc}) at STC	40.14 V	40.41 V	40.75 V	41.05 V
Short circuit current (I_{sc}) at STC	11.21 A	11.29 A	11.35 A	11.42 A
Module efficiency	19.8%	20.0%	20.3%	20.6%
Rated output (P_{mpp}) at NMOT	268.5 Wp	272.2 Wp	275.9 Wp	279.6 Wp
Rated voltage (V_{mpp}) at NMOT	31.22 V	31.45 V	31.68 V	31.96 V
Rated current (I_{mpp}) at NMOT	8.60 A	8.65 A	8.71 A	8.75 A
Open circuit voltage (V_{oc}) at NMOT	37.74 V	37.99 V	38.31 V	38.59 V
Short circuit current (I_{sc}) at NMOT	9.02 A	9.08 A	9.13 A	9.19 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)	1000V _{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 (optional)

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

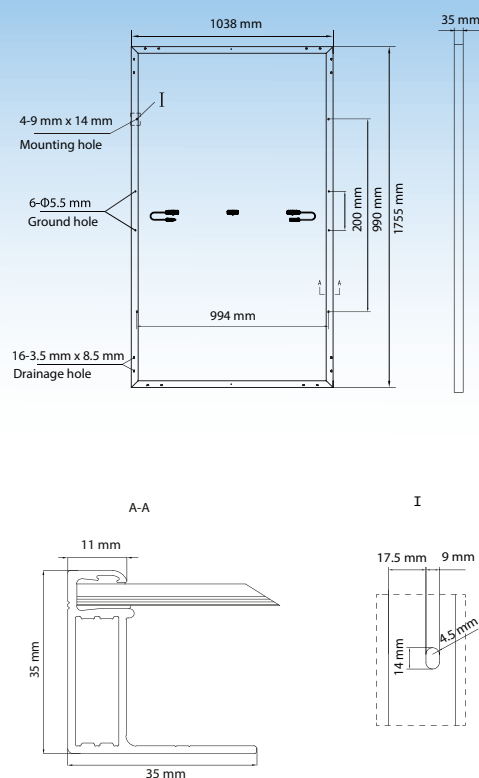
PACKING SPECIFICATIONS

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

