

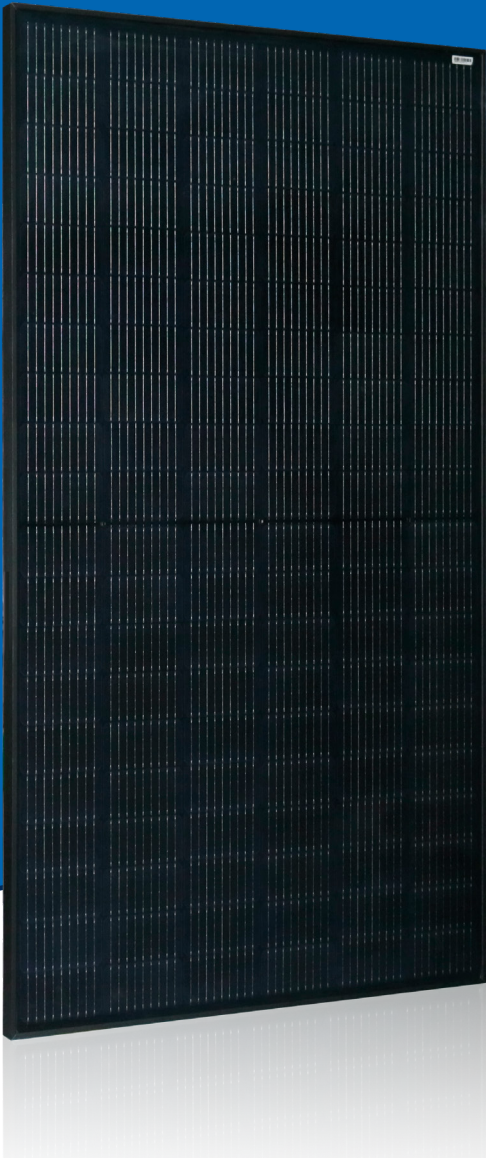
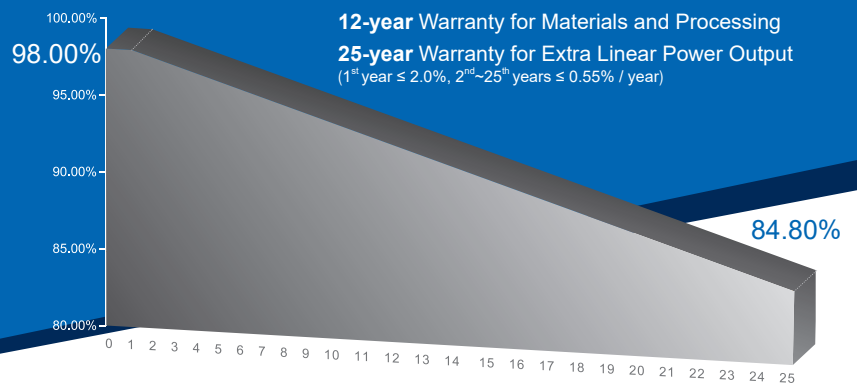
ASTRO 4 Semi

Create Sustainable and Efficient Green Energy

355W~365W

Monocrystalline PV Module

CHSM60M(BL)-HC Series (166)



COMPREHENSIVE CERTIFICATES



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

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.
- Anti PID RESISTANCE**
Excellent PID resistance.
- THE-STATE-OF-THE-ART APPEARANCE**
Full black designed for a better aesthetic appearance and building integration.

For Global Market



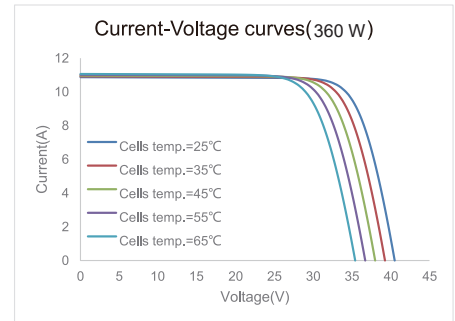
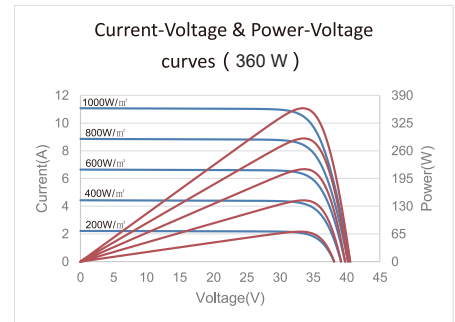
ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})	355 Wp	360 Wp	365 Wp
Rated voltage (V_{mpp}) at STC	33.24 V	33.49 V	33.73 V
Rated current (I_{mpp}) at STC	10.68 A	10.75 A	10.82 A
Open circuit voltage (V_{oc}) at STC	39.80 V	40.14 V	40.41 V
Short circuit current (I_{sc}) at STC	11.15 A	11.21 A	11.29 A
Module efficiency	19.5%	19.8%	20.0%
Rated output (P_{mpp}) at NMOT	264.7 Wp	268.5 Wp	272.2 Wp
Rated voltage (V_{mpp}) at NMOT	30.99 V	31.22 V	31.45 V
Rated current (I_{mpp}) at NMOT	8.54 A	8.60 A	8.65 A
Open circuit voltage (V_{oc}) at NMOT	37.42 V	37.74 V	37.99 V
Short circuit current (I_{sc}) at NMOT	8.97 A	9.02 A	9.08 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)	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

CURVE



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

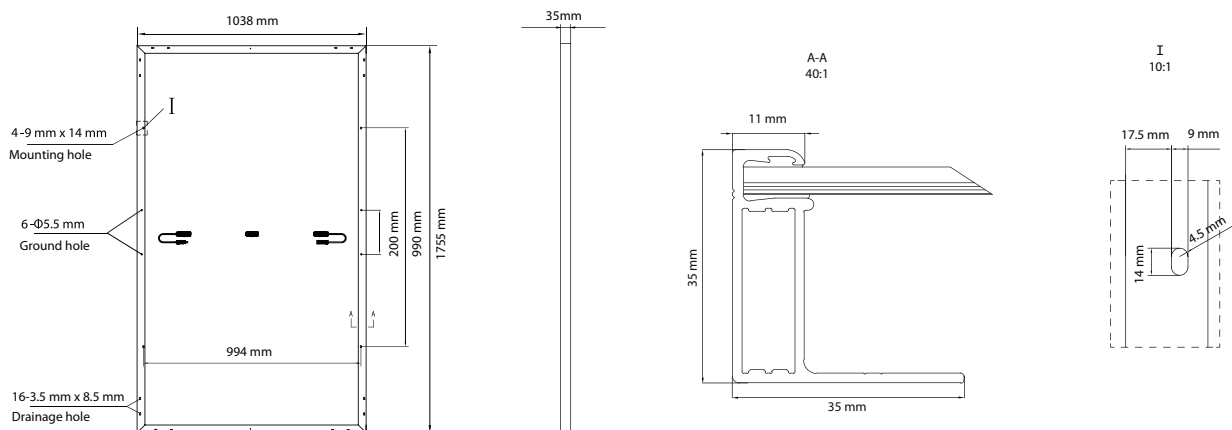
① Refer to Astronergy crystalline installation manual or contact technical department.
 Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Module Weight	20.0 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	661 kg
Number of modules per 40'HQ container	806 pcs

① Tolerance +/- 1.0kg
 ② Subject to sales contract

MODULE DIMENSION DETAILS



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