

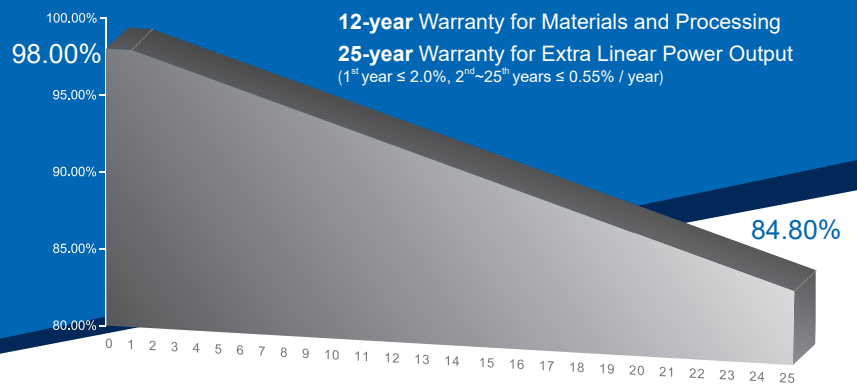
# ASTRO 4 Semi

Create Sustainable and Efficient Green Energy

## 355W~365W

Monocrystalline PV Module

CHSM60M(BL)-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.



#### THE-STATE-OF-THE-ART APPEARANCE

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

### COMPREHENSIVE CERTIFICATES



Designed for the Australian Market



**ASTRONERGY**  
A CHNT COMPANY

## ELECTRICAL SPECIFICATIONS

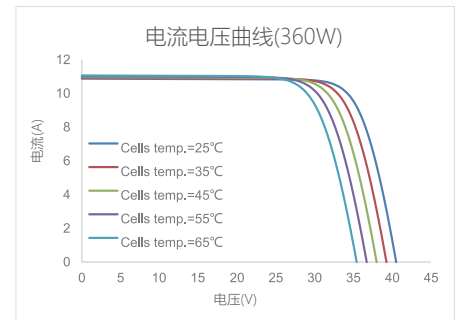
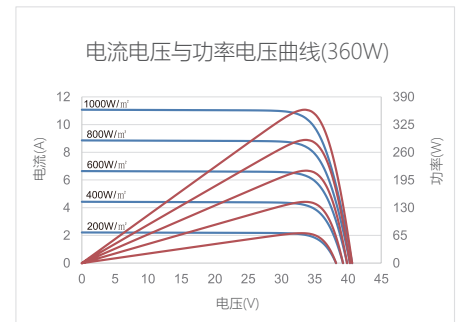
STC rated output ( $P_{mpp}$ )	355 Wp	360 Wp	365 Wp
Rated voltage ( $V_{mpp}$ ) at STC	33.24 V	33.49 V	33.73 V
Rated current ( $I_{mpp}$ ) at STC	10.68 A	10.75 A	10.82 A
Open circuit voltage ( $V_{oc}$ ) at STC	39.80 V	40.14 V	40.41 V
Short circuit current ( $I_{sc}$ ) at STC	11.15 A	11.21 A	11.29 A
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 <sub>DC</sub>		
Number of diodes	3		
Junction box IP rating	IP 68		
Maximum series fuse rating	20 A		

\* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

NMOT: Irradiance 800W/m<sup>2</sup>, 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, black anodized
Front glass thickness	3.2 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm <sup>2</sup> / 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)	PV-HCB40 or PV-KST4/XY, PV-KBT4/XY, PV-KST4-EVO2/XY-UR, PV-KBT4-EVO2/XY-UR

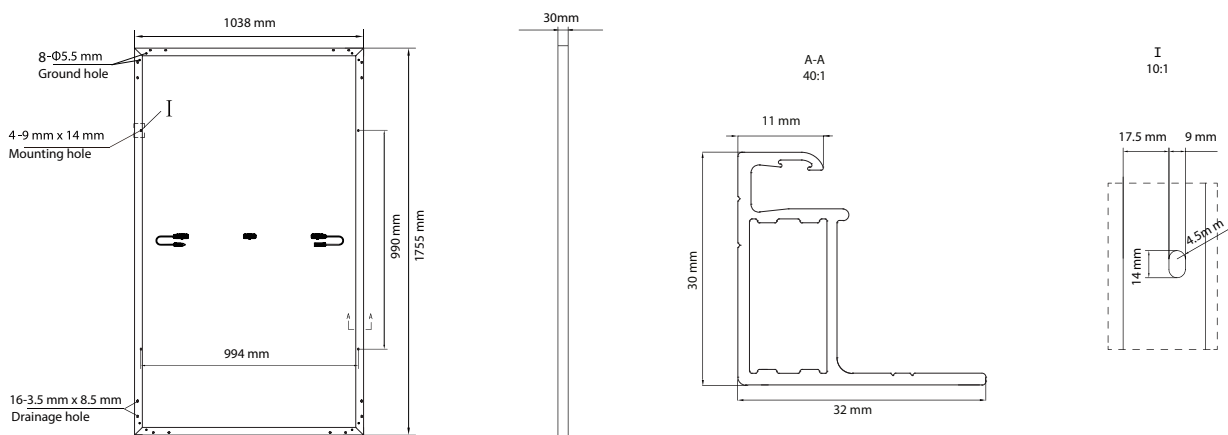
① Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## 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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Astronergy 02-2021