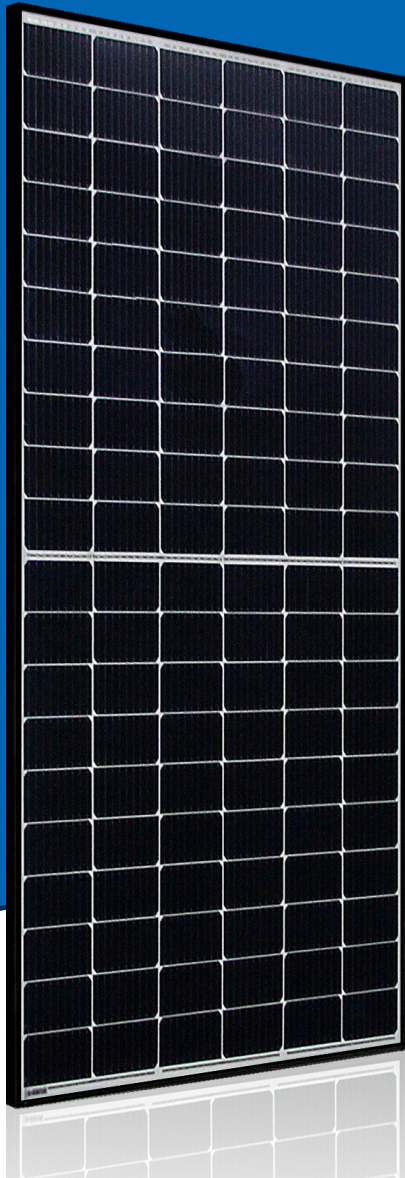


# PENTA<sup>+</sup> Premium M6<sup>TM</sup>

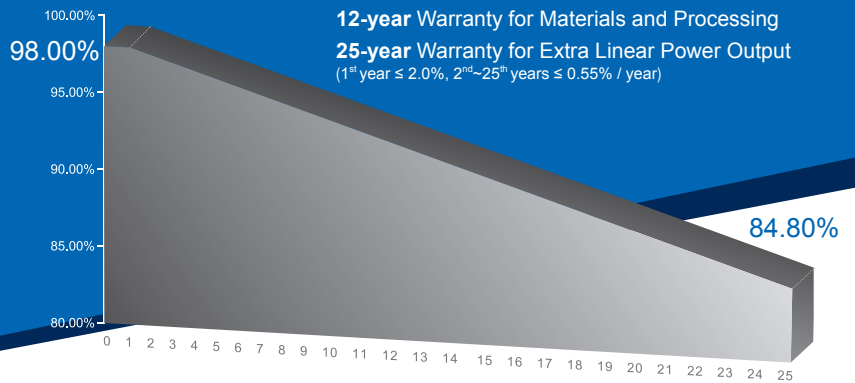
Incredible Power for Small Body









## 360W~380W

Monocrystalline PV Module

CHSM60M-HC (BF) Series (166)



### KEY FEATURES

- 
**OUTPUT POSITIVE TOLERANCE**  
 GUARANTEED 0~+5W POSITIVE TOLERANCE ENSURES POWER OUTPUT RELIABILITY.
- 
**INNOVATIONAL HALF-CELL TECHNOLOGY**  
 IMPROVES THE MODULE OUTPUT, DECREASES THE RISK OF MICRO-CRACK, ENHANCES THE MODULE RELIABILITY.
- 
**INNOVATIVE PERC CELL TECHNOLOGY**  
 EXCELLENT CELL EFFICIENCY AND OUTPUT.
- 
**REDUCE SHADOW LOSS**  
 EFFECTIVELY REDUCES THE EFFECT OF SHADOW ON THE MODULE SURFACE.
- 
**REDUCE INTERNAL MISMATCH LOSS**  
 REDUCES MISMATCH LOSS AND IMPROVES OUTPUT.
- 
**PASSED HAIL TEST**  
 CERTIFIED TO HAIL RESISTANCE: ICE BALL SIZE (D=25MM) AND ICE BALL VELOCITY (V=23M/S).
- 
**Anti PID RESISTANCE**  
 EXCELLENT PID RESISTANCE AT 96 HOURS (@85°C /85%) TEST, AND ALSO CAN BE IMPROVED TO MEET HIGHER STANDARDS FOR THE PARTICULARLY HARSH ENVIRONMENT.

### COMPREHENSIVE CERTIFICATES



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



**ASTRONERGY**  
A CHNT COMPANY

## ELECTRICAL SPECIFICATIONS

STC rated output ( $P_{mpp}$ )*	360 Wp	365 Wp	370 Wp	375 Wp	380 Wp
Rated voltage ( $V_{mpp}$ ) at STC	33.49 V	33.73 V	33.98 V	34.28 V	34.51 V
Rated current ( $I_{mpp}$ ) at STC	10.75 A	10.82 A	10.89 A	10.94 A	11.01 A
Open circuit voltage ( $V_{oc}$ ) at STC	40.14 V	40.41 V	40.75 V	41.05 V	41.34 V
Short circuit current ( $I_{sc}$ ) at STC	11.21 A	11.29 A	11.35 A	11.42 A	11.49 A
Module efficiency	19.5%	19.7%	20.0%	20.3%	20.5%
Rated output ( $P_{mpp}$ ) at NMOT	268.5 Wp	272.2 Wp	275.9 Wp	279.6 Wp	283.4 Wp
Rated voltage ( $V_{mpp}$ ) at NMOT	31.22 V	31.45 V	31.68 V	31.96 V	32.18 V
Rated current ( $I_{mpp}$ ) at NMOT	8.60 A	8.65 A	8.71 A	8.75 A	8.81 A
Open circuit voltage ( $V_{oc}$ ) at NMOT	37.74 V	37.99 V	38.31 V	38.59 V	38.87 V
Short circuit current ( $I_{sc}$ ) at NMOT	9.02 A	9.08 A	9.13 A	9.19 A	9.24 A
Temperature coefficient ( $P_{mpp}$ )			- 0.34%/°C		
Temperature coefficient ( $I_{sc}$ )			+0.04%/°C		
Temperature coefficient ( $V_{oc}$ )			- 0.27%/°C		
Nominal module operating temperature (NMOT)			44±2°C		
Maximum system voltage (IEC/UL)			1500V <sub>DC</sub>		
Number of diodes			3		
Junction box IP rating			IP 68		
Maximum series fuse rating			20 A		

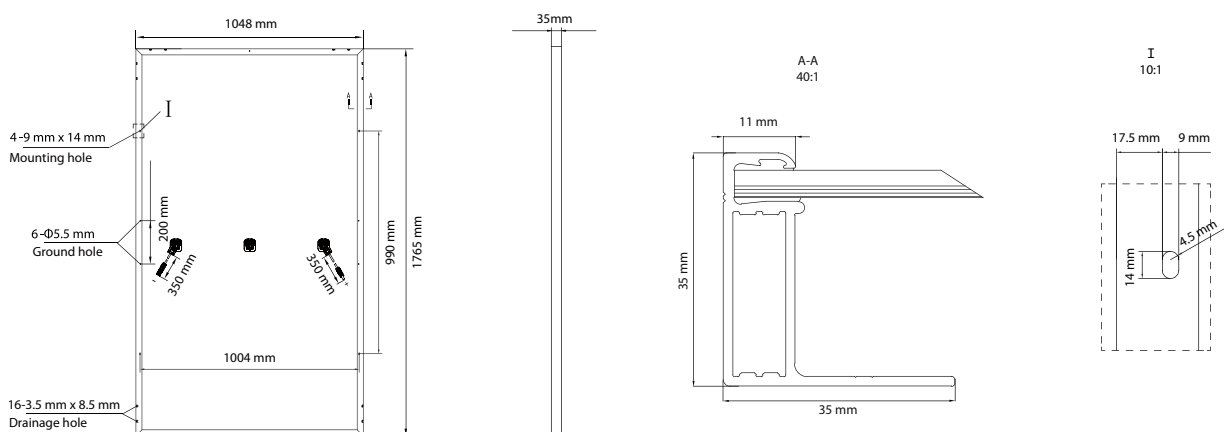
\* Measurement tolerance +/- 3%  
 STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5  
 NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## MECHANICAL SPECIFICATIONS

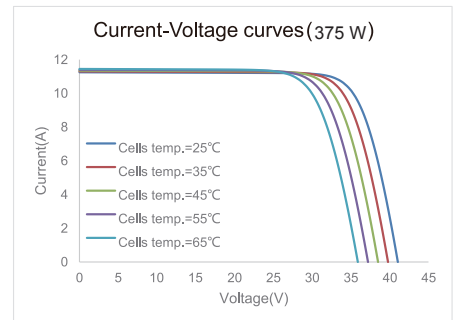
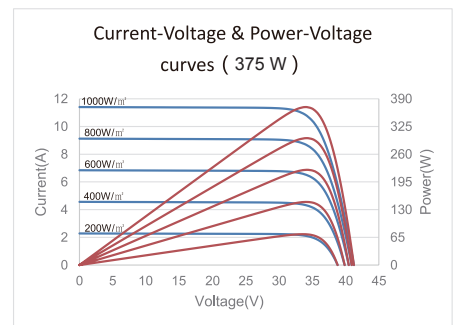
Outer dimensions (L x W x H)	1765 x 1048 x 35 mm
Frame technology	Aluminum, black anodized
Module composition	Glass / EVA / Backsheet (white)
Front glass thickness	3.2 mm
Cable length (IEC/UL)	1200 mm
Cable diameter (IEC/UL)	4 mm <sup>2</sup> / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	Chint HCB40

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

## MODULE DIMENSION DETAILS



## CURVE



## PACKING SPECIFICATIONS

① Weight (module only)	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