

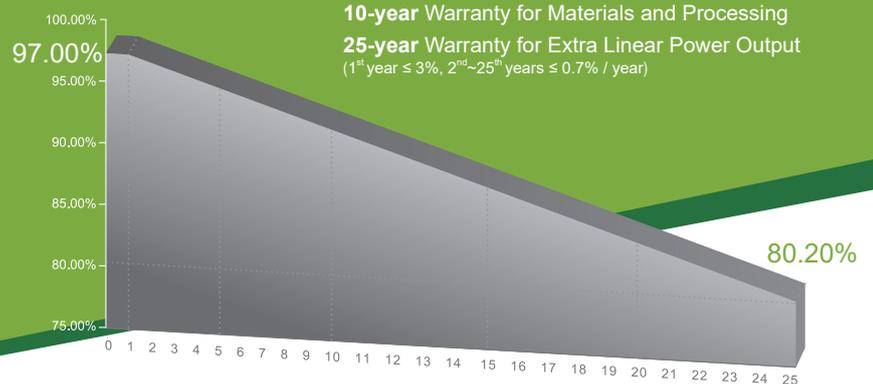
For Global Market



STAR™ II 350W~370W

5BB-Monocrystalline PV Module

CHSM72M-HC Series



KEY FEATURES

- +5W OUTPUT POSITIVE TOLERANCE**
Guaranteed 0~+5W positive tolerance ensures power output reliability.
- INNOVATIONAL 5-BUSBAR CELLS**
Reduces the cell series resistance and internal stress, decreases the risk of micro-crack and improves the module output.
- 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=45mm) and ice ball velocity (v=30.7m/s).
- Anti PID 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.



ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	350 Wp	355 Wp	360 Wp	365 Wp	370 Wp
Rated voltage (V_{mpp}) at STC	38.67V	38.91V	39.15V	39.47V	39.71V
Rated current (I_{mpp}) at STC	9.05 A	9.12 A	9.20 A	9.25 A	9.32 A
Open circuit voltage (V_{oc}) at STC	46.52V	46.83V	47.13V	47.44V	47.64V
Short circuit current (I_{sc}) at STC	9.52 A	9.57 A	9.64 A	9.71 A	9.80 A
Module efficiency	17.8%	18.0%	18.3%	18.5%	18.8%
Rated output (P_{mpp}) at NOCT	257.8 Wp	261.5 Wp	265.1 Wp	268.8 Wp	272.5 Wp
Rated voltage (V_{mpp}) at NOCT	35.71V	35.95V	36.13V	36.44V	36.66V
Rated current (I_{mpp}) at NOCT	7.22 A	7.27 A	7.34 A	7.38 A	7.43 A
Open circuit voltage (V_{oc}) at NOCT	43.13V	43.42V	43.70V	43.99V	44.17V
Short circuit current (I_{sc}) at NOCT	7.65 A	7.69 A	7.75 A	7.80 A	7.87 A
Temperature coefficient (P_{mpp})	- 0.376%/°C				
Temperature coefficient (I_{sc})	+0.043%/°C				
Temperature coefficient (V_{oc})	- 0.282%/°C				
Normal operating cell temperature (NOCT)	46±2°C				
Maximum system voltage (IEC/UL)	1500V _{DC}				
Number of diodes	3				
Junction box IP rating	IP 67				
Maximum series fuse rating	15 A				

* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

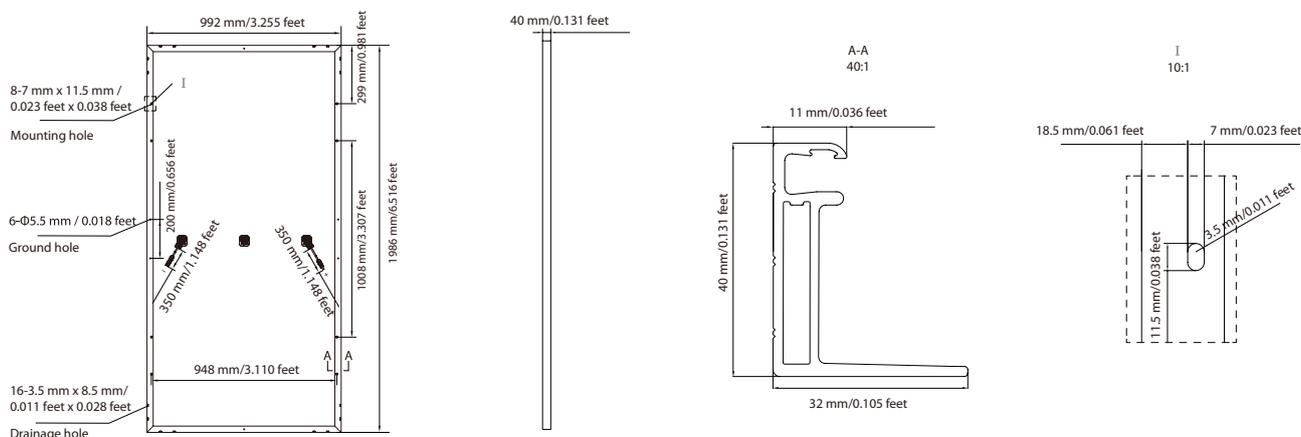
NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATIONS

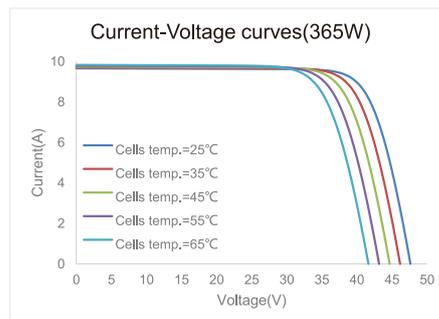
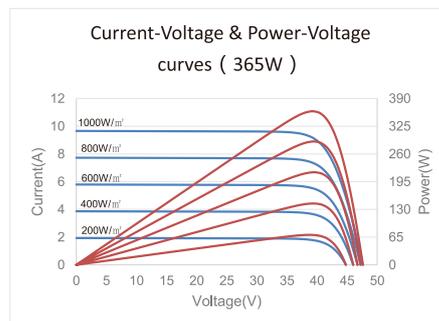
Outer dimensions (L x W x H)	1986 x 992 x 40 mm 78.19 x 39.06 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Front glass thickness	3.2 mm / 0.13 in
① Cable length (IEC/UL)	350 mm / 13.78 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
② Maximum mechanical test load	6000 Pa
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	MC4 compatible

① Refer to Astronergy crystalline installation manual or contact technical department.

MODULE DIMENSION DETAILS



CURVE



PACKING SPECIFICATIONS

① Weight (module only)	22.2 kg / 48.94 lbs
② Packing unit	27 pcs / box
Weight of packing unit (for 40'HQ container)	658 kg / 1451 lbs
Number of modules per 40'HQ container	594 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract