

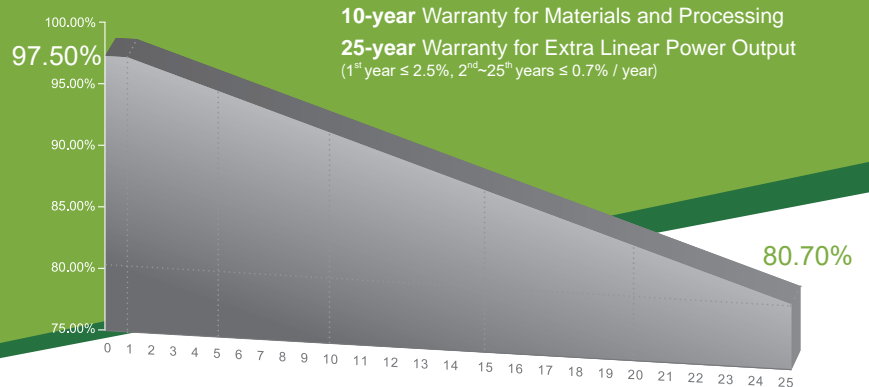
For Global Market



# STAVE™ II 275W~295W

5BB-Polycrystalline PV Module

CHSM60P-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 ( $P_{mpp}$ )*	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp
Rated voltage ( $V_{mpp}$ ) at STC	31.68 V	31.90 V	32.12 V	32.34 V	32.56 V
Rated current ( $I_{mpp}$ ) at STC	8.68 A	8.77 A	8.87 A	8.97 A	9.06 A
Open circuit voltage ( $V_{oc}$ ) at STC	38.17 V	38.41 V	38.65 V	38.90 V	39.14 V
Short circuit current ( $I_{sc}$ ) at STC	9.18 A	9.27 A	9.34 A	9.43 A	9.52 A
Module efficiency	16.6%	16.9%	17.2%	17.5%	17.8%
Rated output ( $P_{mpp}$ ) at NOCT	206.3 Wp	210.0 Wp	213.8 Wp	217.5 Wp	221.3 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	28.70 V	28.93 V	29.11 V	29.29 V	29.50 V
Rated current ( $I_{mpp}$ ) at NOCT	7.19 A	7.26 A	7.34 A <td 7.43 A	7.50 A	
Open circuit voltage ( $V_{oc}$ ) at NOCT	34.87 V	35.09 V	35.31 V	35.54 V	35.76 V
Short circuit current ( $I_{sc}$ ) at NOCT	7.73 A	7.80 A	7.86 A	7.94 A	8.02 A
Temperature coefficient ( $P_{mpp}$ )	- 0.407%/°C				
Temperature coefficient ( $I_{sc}$ )	+0.049%/°C				
Temperature coefficient ( $V_{oc}$ )	- 0.310%/°C				
Normal operating cell temperature (NOCT)	43±2°C				
Maximum system voltage (IEC/UL)	1500V <sub>DC</sub>				
Number of diodes	3				
Junction box IP rating	IP 67				
Maximum series fuse rating	15 A				

\* Measurement tolerance +/- 3%

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

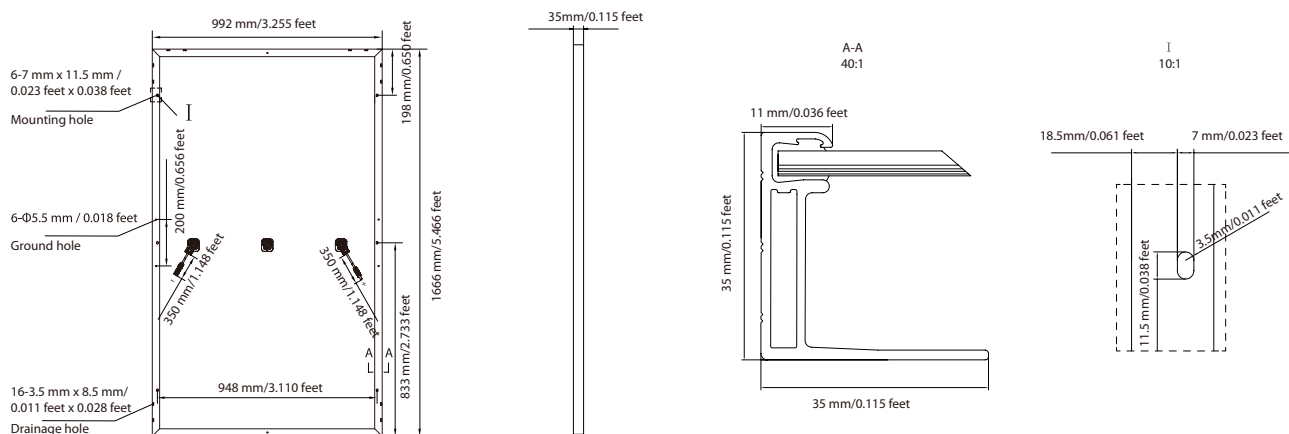
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## MECHANICAL SPECIFICATIONS

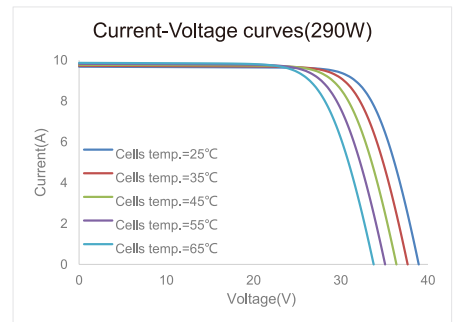
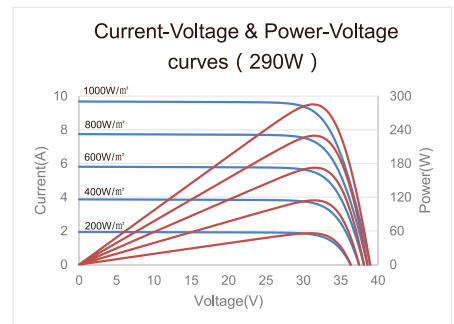
Outer dimensions (L x W x H)	1666 x 992 x 35 mm 65.59 x 39.06 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Front glass thickness	3.2 mm / 0.13 in
① Cable length (IEC/UL)	350 mm / 13.78in
Cable diameter (IEC/UL)	4 mm <sup>2</sup> / 12 AWG
② Maximum 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)	18.6 kg / 41.01 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	627 kg / 1382 lbs
Number of modules per 40'HQ container	868 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract