## AstroHalo<sup>™</sup> High Tech Leads Industry



\* Optional: Black frame designed for the certain projects and applications (e.g. residential rooftop and so on)



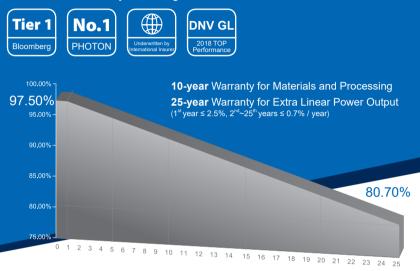
First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

# 280W~295W

5BB-Polycrystalline PV Module CHSM6610P Series

### CHSM6610P/HV Series

CHSM6610P max system voltage 1000V standard CHSM6610P/HV max system voltage 1500V standard



#### **KEY FEATURES**



**OUTPUT POSITIVE TOLERANCE** Guaranteed 0~+5W positive tolerance ensures power output reliability.



INNOVATIVE PERC CELL TECHNOLOGY Excellent cell efficiency and output.



EXCELLENT STATICMECHANICAL LOAD CAPABILITY

Certified to withstand: front load (6000 Pa) and back load (3600 Pa).



HIGHER RELIABILITY AND DURABILITY Effectively deals with harsh environments, such as sand, salt mist and



PASSED HAIL TEST

ammonia resistance.

Certified to hail resistence: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).



#### 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.



ELECTRICAL SPECIFICATIONS					
STC rated output (P <sub>mpp</sub> )*	280 Wp	285 Wp	290 Wp	295 Wp	
Rated voltage ( $V_{mpp}$ ) at STC	31.20 V	31.38 V	31.55 V	31.63 V	
Rated current ( $I_{mpp}$ ) at STC	8.99 A	9.09 A	9.20 A	9.34 A	
Open circuit voltage ( $V_{oc}$ ) at STC	38.69 V	38.94 V	39.18 V	39.42 V	
Short circuit current ( $I_{sc}$ ) at STC	9.59 A	9.68 A	9.75 A	9.83 A	
Module efficiency	17.1%	17.4%	17.7%	18.0%	
Rated output (P <sub>mpp</sub> ) at NOCT	210.0 Wp	213.8 Wp	217.5 Wp	221.3 Wp	
Rated voltage ( $V_{mpp}$ ) at NOCT	28.22 V	28.41 V	28.56 V	28.62 V	
Rated current (Impp) at NOCT	7.44 A	7.52 A	7.62 A	7.73 A	
Open circuit voltage (V <sub>oc</sub> ) at NOCT	35.35 V	35.57 V	35.79 V	36.01 V	
Short circuit current ( $I_{sc}$ ) at NOCT	8.08 A	8.15 A	8.21 A	8.28 A	
Temperature coefficient (P <sub>mpp</sub> )	- 0.407%/°C				
Temperature coefficient (Isc)	+0.049%/°C				
Temperature coefficient ( $V_{oc}$ )	- 0.310%/°C				
Normal operating cell temperature (NOCT)	43±2°C				
Maximum system voltage (IEC/UL)	$1000V_{DC}$ or $1500V_{DC}$				
Number of diodes	3				
Junction box IP rating	IP 67				
Maximum series fuse rating	15 A(≤280W), 20 A(≥285W)				

\* Measurement tolerance

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

+/- 3%

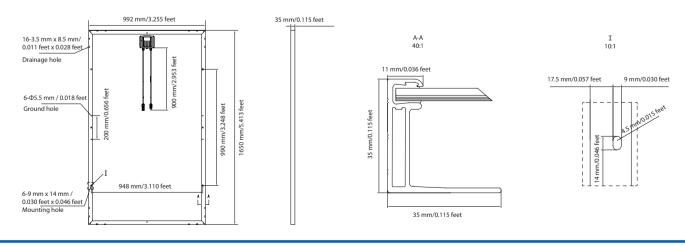
#### MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1650 x 992 x 35 mm 64.96 x 39.06 x 1.38 in	
Frame technology	Aluminum, silver / black anodized	
Module composition	Glass / EVA / Backsheet (white)	
Front glass thickness	3.2 mm / 0.13 in	
<sup>①</sup> Cable length (IEC/UL)	900 mm / 35.43 in	
Cable diameter (IEC/UL)	4 mm² / 12 AWG	
<sup>②</sup> Maximum mechanical test load	6000 Pa (front) / 3600 Pa (back)	
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)	
Connector type (IEC/UL)	MC4 compatible	

 $^{\odot}$  Option: 900(+) /600(-) mm or 1000 mm for defined projects in advance.

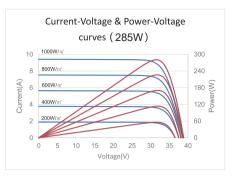
Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

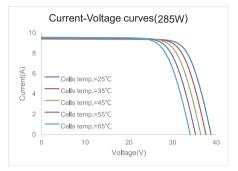
#### MODULE DIMENSION DETAILS



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#### CURVE





PACKING SPECIFICATIONS				
<sup>①</sup> Weight (module only)	18.4 kg / 40.57 lbs			
<sup>2</sup> Packing unit	31 pcs / box			
Weight of packing unit (for 40'HQ container)	609 kg / 1343 lbs			
Number of modules per 40'HQ container	868 pcs			

<sup>©</sup> Tolerance +/- 1.0kg <sup>©</sup> Subject to sales contract