

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

COMPREHENSIVE CERTIFICATES























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

AstroAtom[™] 275W~290W

5BB-Polycrystalline PV Module

CHSM6610P Series CHSM6610P/HV Series

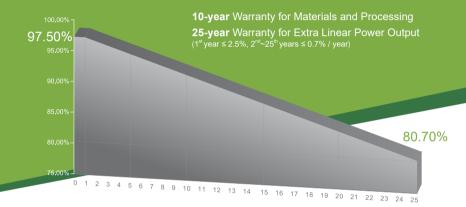
CHSM6610P max system voltage 1000V standard CHSM6610P/HV max system voltage 1500V standard











KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance ensures power output reliability.



INNOVATIONAL 5-BUSBAR CELLS

Reduces the cell series resistance and internal stress, decreases the risk of mirco-crack and improves the module output.



INNOVATIVE PERC CELL TECHNOLOGY

Excellent cell efficiency and output.



EXCELLENT MECHANICAL LOAD CAPABILITY

Certified to withstand: snow load (6000 Pa) and wind load (3600 Pa).



HIGHER RELIABILITY AND DURABILITY

Effectively deals with harsh environments, such as sand, salt mist and ammonia resistance.



PASSED HAIL TEST

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.

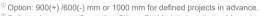


ELECTRICAL SPECIFICATIONS					
STC rated output (Pmpp)*	275 Wp	280 Wp	285 Wp	290 Wp	
Rated voltage (V _{mpp}) at STC	31.12 V	31.20 V	31.38 V	31.55 V	
Rated current (Impp) at STC	8.85 A	8.99 A	9.09 A	9.20 A	
Open circuit voltage (Voc) at STC	38.45 V	38.69 V	38.94 V	39.18 V	
Short circuit current (Isc) at STC	9.52 A	9.59 A	9.68 A	9.75 A	
Module efficiency	16.9%	17.2%	17.5%	17.8%	
Rated output (Pmpp) at NOCT	206.3 Wp	210.0 Wp	213.8 Wp	217.5 Wp	
Rated voltage (V _{mpp}) at NOCT	28.15 V	28.22 V	28.41 V	28.56 V	
Rated current (Impp) at NOCT	7.33 A	7.44 A	7.52 A	7.62 A	
Open circuit voltage (Voc) at NOCT	35.13 V	35.35 V	35.57 V	35.79 V	
Short circuit current (Isc) at NOCT	8.02 A	8.08 A	8.15 A	8.21 A	
Temperature coefficient (P _{mpp})	- 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				



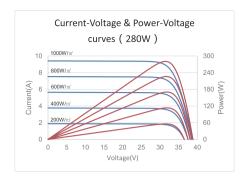
STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5 NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

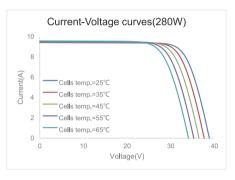
MECHANICAL SPECIFICATIONS 1648 x 990 x 35 mm Outer dimensions (L x W x H) 64.88 x 38.98 x 1.38 in Frame technology Aluminum, silver / black anodized Module composition Glass / EVA / Backsheet (white) Front glass thickness 3.2 mm / 0.13 in ^① Cable length (IEC/UL) 900 mm / 35.43 in Cable diameter (IEC/UL) 4 mm² / 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



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

CURVE

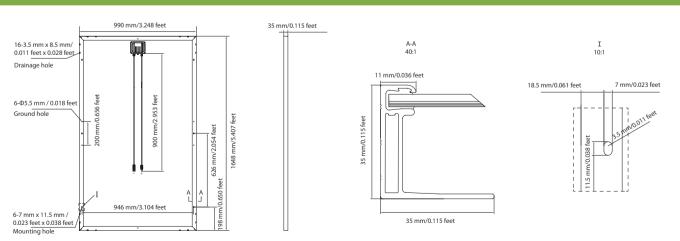




PACKING SPECIFICATIONS			
^① Weight (module only)	18.3 kg / 40.34 lbs		
^② Packing unit	31 pcs / box		
Weight of packing unit (for 40'HQ container)	606 kg / 1336 lbs		
Number of modules per 40'HQ container	868 pcs		

^① Tolerance +/- 1.0kg

MODULE DIMENSION DETAILS



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