

AstroNova™

Profitable for Decades



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.

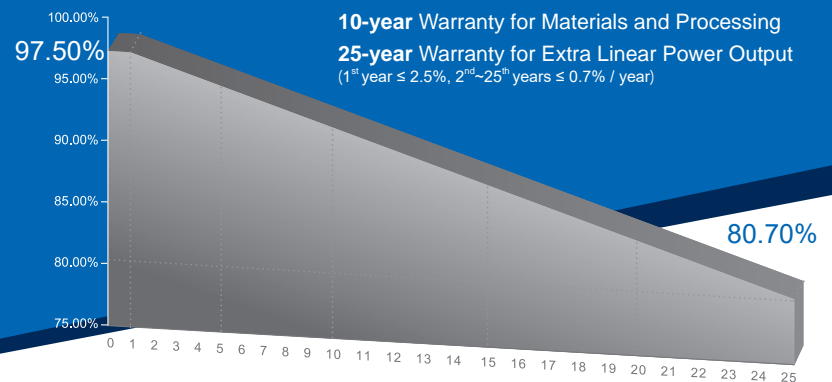
255W~275W

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 micro-crack and improves the module output.
- 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.
- 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 resistance: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).
- LOW-LIGHT IRRADIANCE**
 With the deep textured ARC glass and cell surface texturing process, achieve the excellent performance at the haze, cloudy days and other low light conditions.



ASTRONERGY
A CHNT COMPANY

For Global Market

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp																																																												
Rated voltage (V_{mpp}) at STC	30.66 V	30.88 V	30.92 V	31.08 V	31.12 V																																																												
Rated current (I_{mpp}) at STC	8.33 A	8.43 A	8.58 A	8.70 A	8.85 A																																																												
Open circuit voltage (V_{oc}) at STC	37.48 V	37.72 V	37.87 V	38.00 V	38.45 V																																																												
Short circuit current (I_{sc}) at STC	8.85 A	8.95 A	9.18 A	9.45 A	9.52 A																																																												
Module efficiency	15.6%	15.9%	16.2%	16.5%	16.9%																																																												
Rated output (P_{mpp}) at NOCT	191.3 Wp	195.0 Wp	198.8 Wp	202.5 Wp	206.3 Wp																																																												
Rated voltage (V_{mpp}) at NOCT	27.73 V	27.94 V	27.98 V	28.12 V	28.15 V																																																												
Rated current (I_{mpp}) at NOCT	6.90 A	6.98 A	7.10 A	7.20 A	7.33 A </tr <tr> <td>Open circuit voltage (V_{oc}) at NOCT</td> <td>34.24 V</td> <td>34.46 V</td> <td>34.60 V</td> <td>34.71 V</td> <td>35.13 V</td> </tr> <tr> <td>Short circuit current (I_{sc}) at NOCT</td> <td>7.45 A</td> <td>7.54 A</td> <td>7.73 A</td> <td>7.96 A</td> <td>8.02 A</td> </tr> <tr> <td>Temperature coefficient (P_{mpp})</td> <td colspan="5">- 0.407%/°C</td> </tr> <tr> <td>Temperature coefficient (I_{sc})</td> <td colspan="5">+0.049%/°C</td> </tr> <tr> <td>Temperature coefficient (V_{oc})</td> <td colspan="5">- 0.310%/°C</td> </tr> <tr> <td>Normal operating cell temperature (NOCT)</td> <td colspan="5">43±2°C</td> </tr> <tr> <td>Maximum system voltage (IEC/UL)</td> <td colspan="5">1000V_{DC} or 1500V_{DC}</td> </tr> <tr> <td>Number of diodes</td> <td colspan="5">3</td> </tr> <tr> <td>Junction box IP rating</td> <td colspan="5">IP 67</td> </tr> <tr> <td>Maximum series fuse rating</td> <td colspan="5">15 A</td> </tr>	Open circuit voltage (V_{oc}) at NOCT	34.24 V	34.46 V	34.60 V	34.71 V	35.13 V	Short circuit current (I_{sc}) at NOCT	7.45 A	7.54 A	7.73 A	7.96 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)	1000V _{DC} or 1500V _{DC}					Number of diodes	3					Junction box IP rating	IP 67					Maximum series fuse rating	15 A				
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* 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

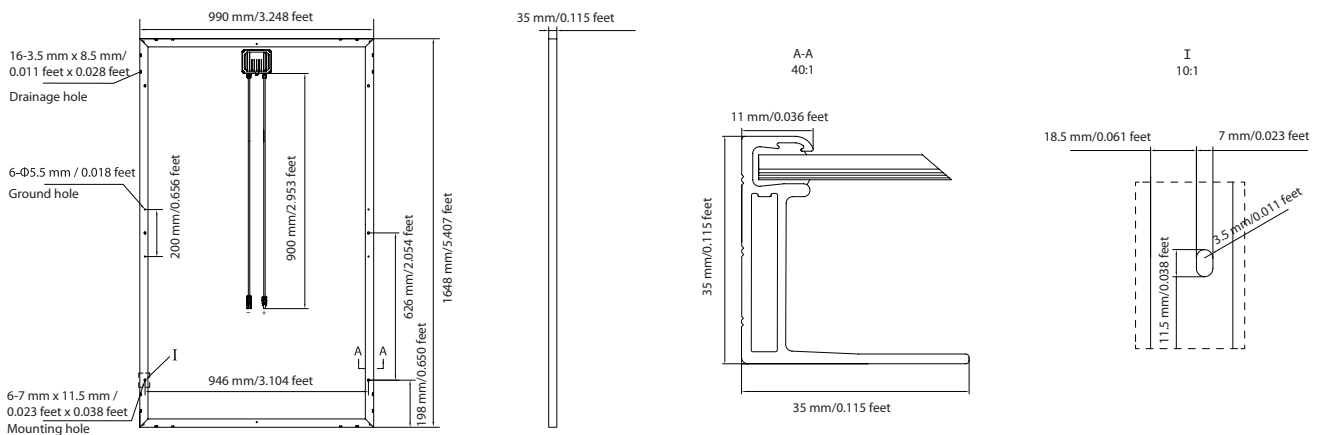
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1648 x 990 x 35 mm 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 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

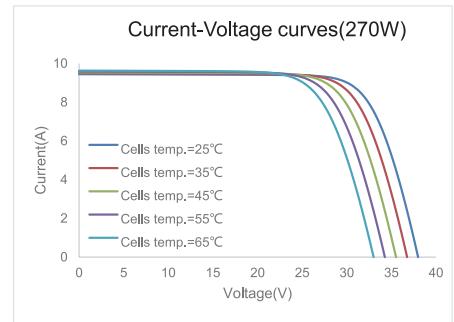
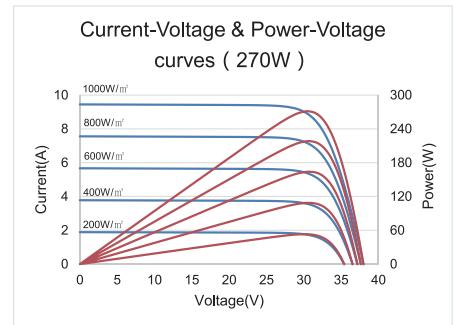
① Option: 900(+)/600(-) mm or 1000 mm for defined projects in advance.

② 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



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

② Subject to sales contract