

For Global Market



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.

# STAVE™ 255W~275W

5BB-Polycrystalline PV Module

CHSM6610P Series

CHSM6610P/HV Series

CHSM6610P max system voltage 1000V standard

CHSM6610P/HV max system voltage 1500V standard

**Tier 1**

Bloomberg

**No.1**

PHOTON

**MunichRe**

Insured

**DNV GL**

2017 TOP Performance

100.00%  
97.50%  
95.00%  
90.00%  
85.00%  
80.00%  
75.00%

**10-year** Warranty for Materials and Processing

**25-year** Warranty for Extra Linear Power Output  
(1<sup>st</sup> year ≤ 2.5%, 2<sup>nd</sup>~25<sup>th</sup> years ≤ 0.7% / year)

80.70%

#### 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.



##### 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 **CHINT** COMPANY

## ELECTRICAL SPECIFICATIONS

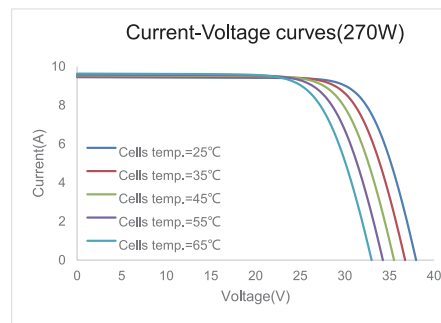
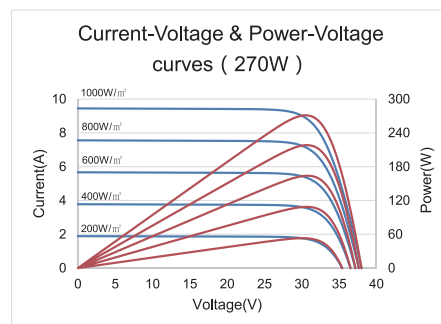
STC rated output ( $P_{mpp}$ )*	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Rated voltage ( $V_{mpp}$ ) at STC	30.66 V	30.88 V	30.92 V	31.08 V	31.12 V
Rated current ( $I_{mpp}$ ) at STC	8.33 A	8.43 A	8.58 A	8.70 A	8.85 A
Open circuit voltage ( $V_{oc}$ ) at STC	37.48 V	37.72 V	37.87 V	38.00 V	38.45 V
Short circuit 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
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 <sub>DC</sub> or 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

## 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)	616 kg / 1358 lbs
Number of modules per 40'HQ container	868 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

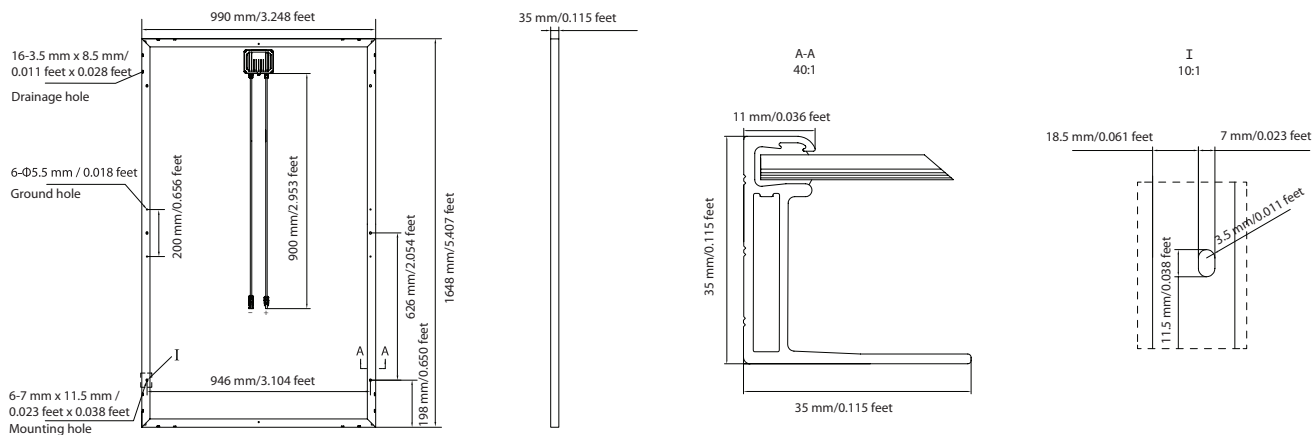
## MECHANICAL SPECIFICATIONS

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

② Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## MODULE DIMENSION DETAILS



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