

Multi-Busbar Module could be the option

330W~350W

Polycrystalline PV Module

CHSM6612P Series

CHSM6612P/HV Series

CHSM6612P max system voltage 1000V standard

CHSM6612P/HV max system voltage 1500V standard

Tier 1

Bloomberg

No.1

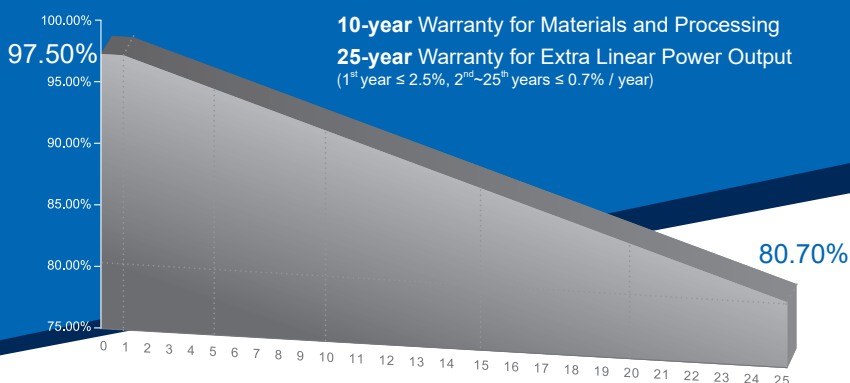
PHOTON

Reinsurance

3rd party

DNV GL

2018 TOP Performance



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.



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 resistance: 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.

COMPREHENSIVE CERTIFICATES



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

For Global Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

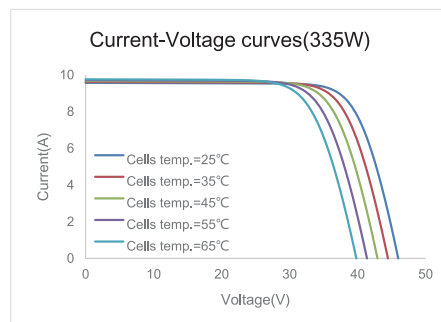
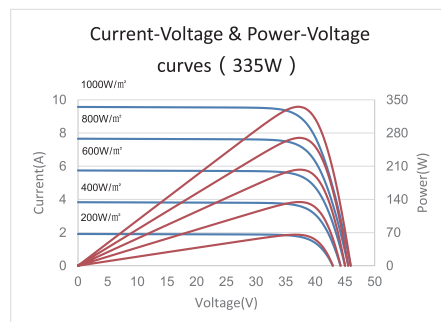
STC rated output (P_{mpp})*	330 Wp	335 Wp	340 Wp	345 Wp	350 Wp
Rated voltage (V_{mpp}) at STC	37.15 V	37.26 V	37.33 V	37.38 V	37.48 V
Rated current (I_{mpp}) at STC	8.89 A	9.00 A	9.11 A	9.23 A	9.34 A
Open circuit voltage (V_{oc}) at STC	45.86 V	45.98 V	46.16 V	46.37 V	46.57 V
Short circuit current (I_{sc}) at STC	9.52 A	9.57 A	9.62 A	9.67 A	9.72 A
Module efficiency	17.0%	17.2%	17.5%	17.7%	18.0%
Rated output (P_{mpp}) at NOCT	230.4 Wp	233.9 Wp	237.4 Wp	240.9 Wp	244.4 Wp
Rated voltage (V_{mpp}) at NOCT	33.92 V	34.01 V	34.10 V	34.15 V	34.24 V
Rated current (I_{mpp}) at NOCT	6.79 A	6.88 A	6.96 A	7.05 A	7.14 A
Open circuit voltage (V_{oc}) at NOCT	42.08 V	42.19 V	42.36 V	42.55 V	42.73 V
Short circuit current (I_{sc}) at NOCT	7.37 A	7.40 A	7.44 A	7.48 A	7.52 A
Temperature coefficient (P_{mpp})	- 0.408%/°C				
Temperature coefficient (I_{sc})	+0.050%/°C				
Temperature coefficient (V_{oc})	- 0.311%/°C				
Normal operating cell temperature (NOCT)	46±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				

* 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

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1960 x 992 x 40 mm 77.17 x 39.06 x 1.57 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)	1150 mm / 45.28 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 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.

PACKING SPECIFICATIONS

① Weight (module only)	21.9 kg / 48.28 lbs
② Packing unit	27 pcs / box
Weight of packing unit (for 40'HQ container)	637 kg / 1404 lbs
Number of modules per 40'HQ container	648 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

MODULE DIMENSION DETAILS

