

AstroHalo™

High Tech Leads Industry



Multi-Busbar Module could be the option

COMPREHENSIVE CERTIFICATES



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

355W~375W

Monocrystalline PV Module

CHSM6612M Series

CHSM6612M/HV Series

CHSM6612M max system voltage 1000V standard

CHSM6612M/HV max system voltage 1500V standard

Tier 1

Bloomberg

No.1

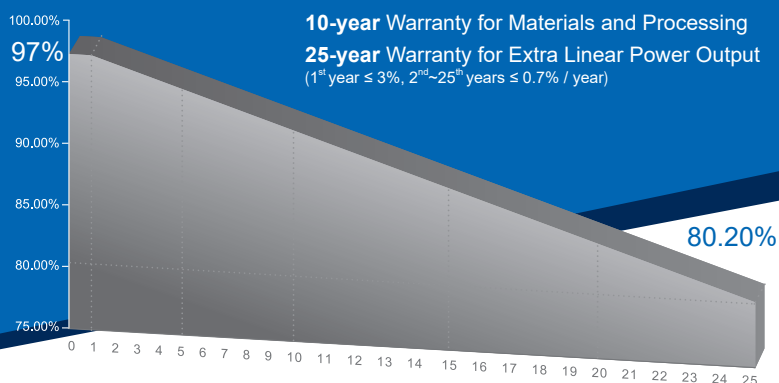
PHOTON

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.



LOWER TEMPERATURE COEFFICIENT

Improved temperature coefficient decreases power loss in the high temperature application.



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.



ASTRONERGY
A CHNT COMPANY

For Global Market

ELECTRICAL SPECIFICATIONS

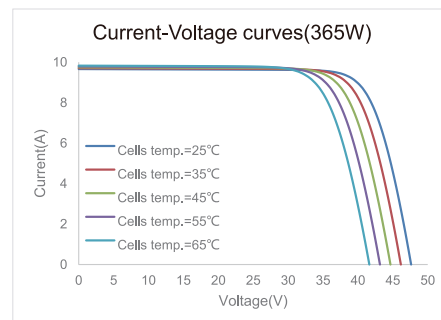
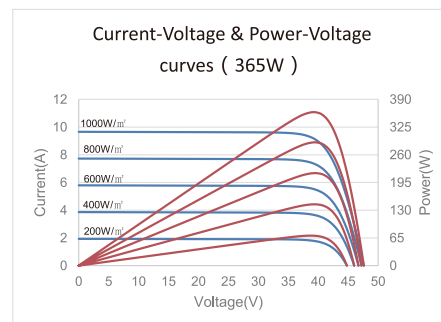
STC rated output (P_{mpp})*	355 Wp	360 Wp	365 Wp	370 Wp	375 Wp
Rated voltage (V_{mpp}) at STC	38.82 V	39.14 V	39.38 V	39.56 V	39.76 V
Rated current (I_{mpp}) at STC	9.15 A	9.20 A	9.27 A	9.36 A	9.45 A
Open circuit voltage (V_{oc}) at STC	47.31 V	47.62 V	47.82 V	48.36 V	48.45 V
Short circuit current (I_{sc}) at STC	9.60 A	9.66 A	9.75 A	9.91 A	9.94 A
Module efficiency	18.3%	18.5%	18.8%	19.0%	19.3%
Rated output (P_{mpp}) at NOCT	261.5 Wp	265.1 Wp	268.8 Wp	272.5 Wp	276.2 Wp
Rated voltage (V_{mpp}) at NOCT	35.81 V	36.13 V	36.36 V	36.50 V	36.64 V
Rated current (I_{mpp}) at NOCT	7.30 A	7.34 A	7.39 A	7.47 A	7.54 A
Open circuit voltage (V_{oc}) at NOCT	43.87 V	44.15 V	44.34 V	44.84 V	44.72 V
Short circuit current (I_{sc}) at NOCT	7.71 A	7.76 A	7.83 A	7.96 A	7.99 A
Temperature coefficient (P_{mpp})	- 0.376%/°C				
Temperature coefficient (I_{sc})	+0.043%/°C				
Temperature coefficient (V_{oc})	- 0.282%/°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



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

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.

MODULE DIMENSION DETAILS

