

340W~380W

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

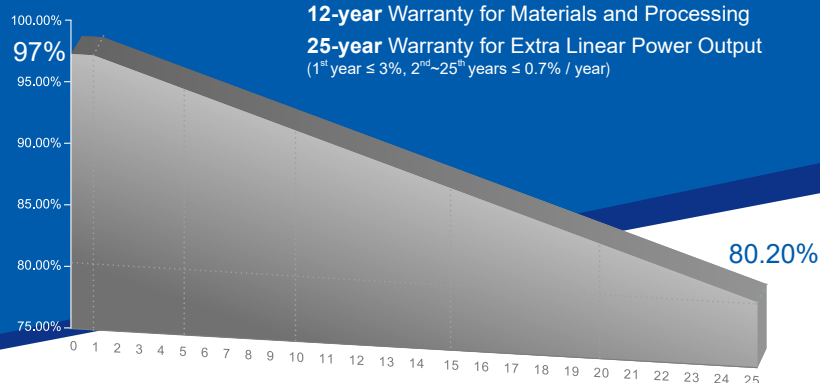
PHOTON

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.



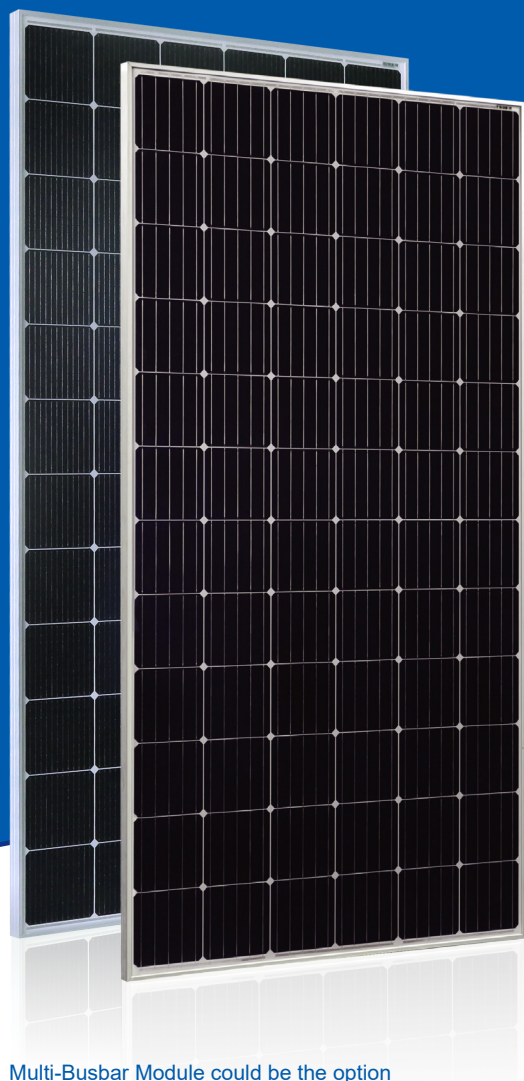
EXCELLENT MECHANICAL LOAD CAPABILITY

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



LOWER TEMPERATURE COEFFICIENT

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



Multi-Busbar Module could be the option

COMPREHENSIVE CERTIFICATES



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

Specially Designed



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp}/W_p)*	340	345	350	355	360	365	370	375	380
Rated voltage (V_{mpp}/V) at STC	38.08	38.34	38.58	38.82	39.14	39.38	39.66	39.94	40.17
Rated current (I_{mpp}/A) at STC	8.93	9.01	9.08	9.15	9.20	9.27	9.34	9.40	9.47
Open circuit voltage (V_{oc}/V) at STC	46.38	46.70	47.01	47.31	47.62	47.82	48.13	48.36	48.61
Short circuit current (I_{sc}/A) at STC	9.41	9.48	9.53	9.60	9.66	9.75	9.82	9.90	9.97
Module efficiency	17.5%	17.7%	18.0%	18.3%	18.5%	18.8%	19.0%	19.3%	19.5%
Rated output (P_{mpp}/W) at NOCT	250.4	254.1	257.8	261.5	265.1	268.8	272.5	276.2	279.9
Rated voltage (V_{mpp}/V) at NOCT	35.14	35.36	35.58	35.81	36.13	36.36	36.58	36.84	37.05
Rated current (I_{mpp}/A) at NOCT	7.13	7.19	7.24	7.30	7.34	7.39	7.45	7.50	7.55
Open circuit voltage(V_{oc}/V) at NOCT	43.00	43.30	43.59	43.87	44.15	44.34	44.62	44.84	45.07
Short circuit current (I_{sc}/A) at NOCT	7.56	7.62	7.66	7.71	7.76	7.83	7.89	7.95	8.01
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)	1000V _{DC} or 1500V _{DC}								
Number of diodes	3								
Junction box IP rating	IP 67								
Maximum series fuse rating	15 A								

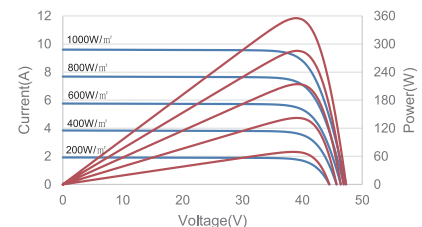
* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

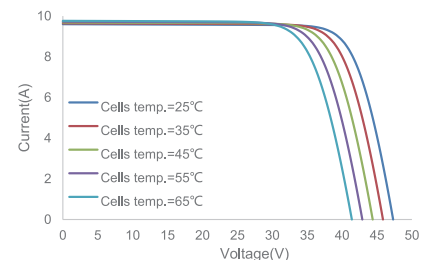
NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

CURVE

Current-Voltage & Power-Voltage curves (355W)



Current-Voltage curves(355W)



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

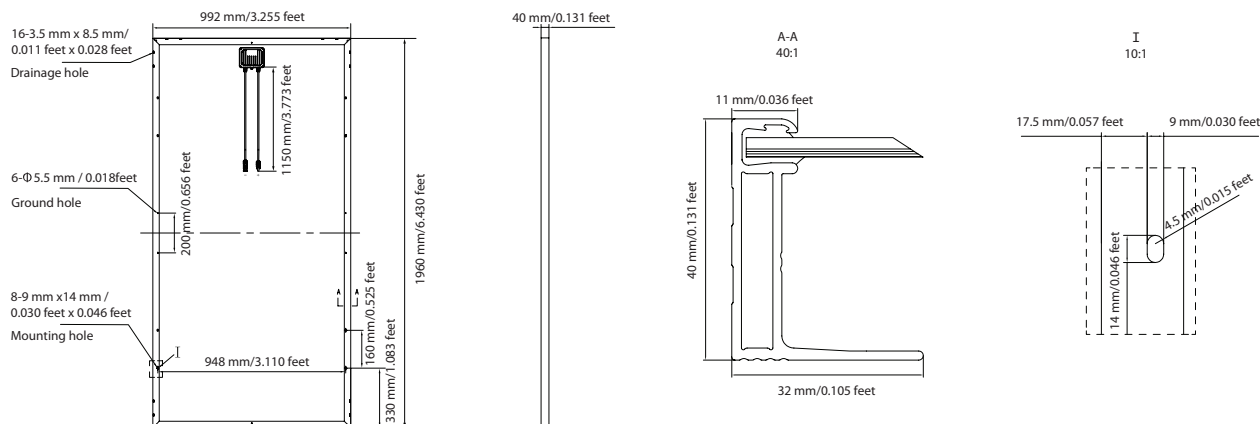
MECHANICAL SPECIFICATIONS

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)	1150 mm / 45.28 in
Cable diameter (IEC)	4 mm ²
② Maximum mechanical test load	6000 Pa
Fire performance (IEC)	C
Connector type (IEC)	MH5(by Minghe) or PV-HCB40(by Chint Solar) or PV-KST4-EVO2/XY,PV-KBT4-EVO2/XY(by Stäubli)

① Option: 900(+)/600(-) mm, 1200mm or any other customized length.

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

MODULE DIMENSION DETAILS



Made in China, Vietnam, Thailand and Germany

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www.astronergy.com

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