

AstroSemi™

Incredible Power for Small Body



Multi-Busbar Module could be the option

355W~375W

Monocrystalline PV Module

CHSM72M-HC Series

Tier 1

Bloomberg

No.1

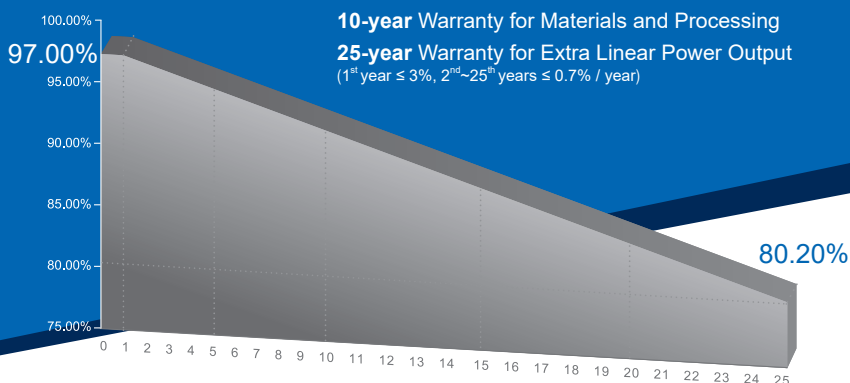
PHOTON

MunichRe

Insured

DNV GL

2018 TOP
Performance



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance ensures power output reliability.



INNOVATIONAL HALF-CELL TECHNOLOGY

Improves the module output, decreases the risk of micro-crack, enhances the module reliability.



INNOVATIVE PERC CELL TECHNOLOGY

Excellent cell efficiency and output.



REDUCE SHADOW LOSS

Effectively reduces the effect of shadow on the module surface.



REDUCE INTERNAL MISMATCH LOSS

Reduces mismatch loss and improves output.



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

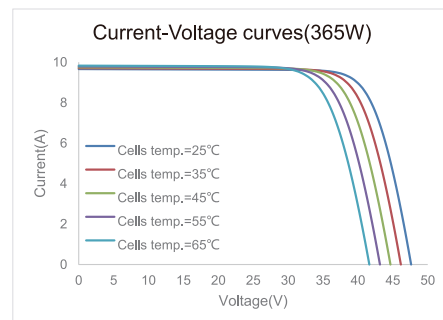
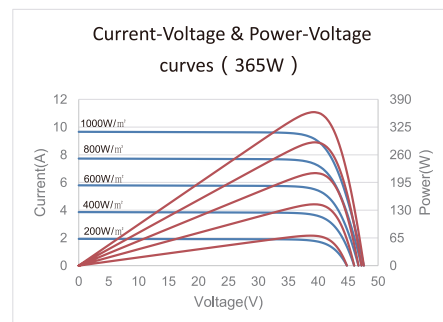
STC rated output (P_{mpp})*	355 Wp	360 Wp	365 Wp	370 Wp	375 Wp
Rated voltage (V_{mpp}) at STC	38.91V	39.15V	39.47V	39.71V	39.94V
Rated current (I_{mpp}) at STC	9.12 A	9.20 A	9.25 A	9.32 A	9.39 A
Open circuit voltage (V_{oc}) at STC	46.83V	47.13V	47.44V	47.64V	47.89V
Short circuit current (I_{sc}) at STC	9.57 A	9.64 A	9.71 A	9.80 A	9.88 A
Module efficiency	18.0%	18.3%	18.5%	18.8%	19.0%
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	35.95V	36.13V	36.44V	36.66V	36.88V
Rated current (I_{mpp}) at NOCT	7.27 A	7.34 A	7.38 A	7.43 A	7.49 A
Open circuit voltage (V_{oc}) at NOCT	43.42V	43.70V	43.99V	44.17V	44.40V
Short circuit current (I_{sc}) at NOCT	7.69 A	7.75 A	7.80 A	7.87 A	7.94 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)	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)	22.2 kg / 48.94 lbs
② Packing unit	27 pcs / box
Weight of packing unit (for 40'HQ container)	645 kg / 1422 lbs
Number of modules per 40'HQ container	594 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1986 x 992 x 40 mm 78.19 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)	800 mm / 31.50 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: 1100 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

