

For Global Market



# STAR<sup>TM</sup> II 350W~370W

5BB-Monocrystalline PV Module

CHSM72M-HC Series

**Tier 1**

Bloomberg

**No.1**

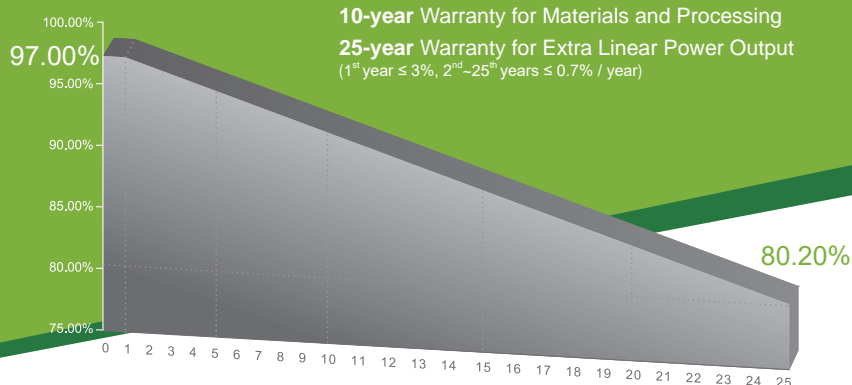
PHOTON

MunichRe

Insured

**DNV GL**

2017 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.



### 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.



## ELECTRICAL SPECIFICATIONS

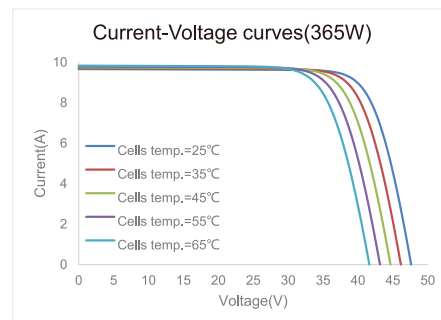
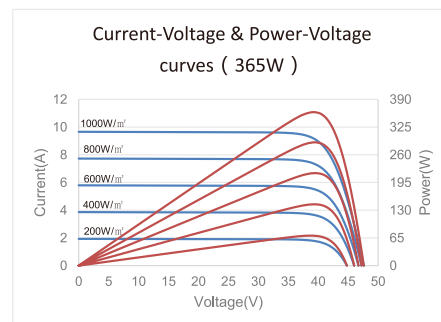
STC rated output ( $P_{mpp}$ )*	350 Wp	355 Wp	360 Wp	365 Wp	370 Wp
Rated voltage ( $V_{mpp}$ ) at STC	38.67V	38.91V	39.15V	39.47V	39.71V
Rated current ( $I_{mpp}$ ) at STC	9.05 A	9.12 A	9.20 A	9.25 A	9.32 A
Open circuit voltage ( $V_{oc}$ ) at STC	46.52V	46.83V	47.13V	47.44V	47.64V
Short circuit current ( $I_{sc}$ ) at STC	9.52 A	9.57 A	9.64 A	9.71 A	9.80 A
Module efficiency	17.8%	18.0%	18.3%	18.5%	18.8%
Rated output ( $P_{mpp}$ ) at NOCT	257.8 Wp	261.5 Wp	265.1 Wp	268.8 Wp	272.5 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	35.71V	35.95V	36.13V	36.44V	36.66V
Rated current ( $I_{mpp}$ ) at NOCT	7.22 A	7.27 A	7.34 A	7.38 A	7.43 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	43.13V	43.42V	43.70V	43.99V	44.17V
Short circuit current ( $I_{sc}$ ) at NOCT	7.65 A	7.69 A	7.75 A	7.80 A	7.87 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 <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)	22.2 kg / 48.94 lbs
② Packing unit	27 pcs / box
Weight of packing unit (for 40'HQ container)	658 kg / 1451 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)	350 mm / 13.78 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 Refer to Astronergy crystalline installation manual or contact technical department.

## MODULE DIMENSION DETAILS

