

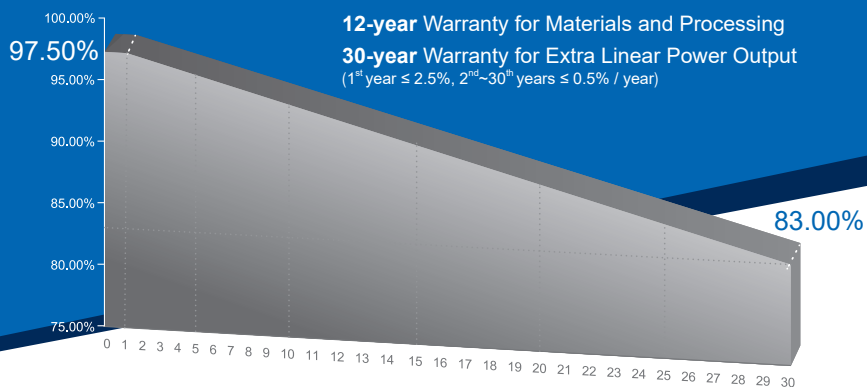
AstroTwins™

Enjoy the Energy of the Universe

370W~380W

P-type Monocrystalline PV Module
CHSM72M(DG)/F-B Series (156.75)

CHSM72M(DG)/F-B is bifacial module with white glazed glass



KEY FEATURES

- OUTPUT POSITIVE TOLERANCE**
 Guaranteed 0~+5W positive tolerance ensures power output reliability.
- ENHANCED FIRE PERFORMANCE**
 Fire Class A certified according to IEC standard.
- EXCELLENT WEATHER RESISTANCE**
 Reduces the cell micro-crack and extended product warranty.
- BIFACIAL POWER**
 The backside makes use of the reflected and scattered light from the surroundings, the modules can yield up to 5%~30% power more, depending on the albedo.
- LOW-LIGHT IRRADIANCE**
 The excellent performance at the haze, cloudy days and other low light conditions.
- APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS**
 The wide range of applications, such as BIPV, vertical installation, snow area, high humidity area and strong sandstorm area, etc.
- SNAIL TRAIL RESISTANCE**
 Reduces the probability of snail trails with zero water vapor transmittance.

COMPREHENSIVE CERTIFICATES



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

For Global Market



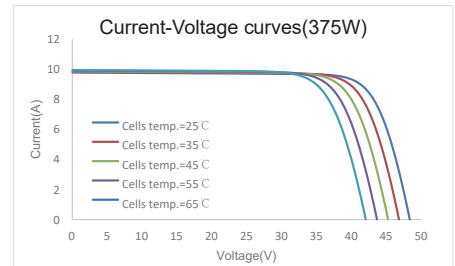
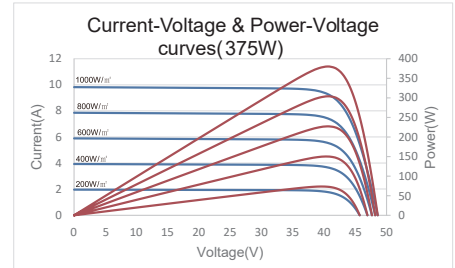
ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

Power rating (front)	370 Wp		375 Wp		380 Wp	
	Front	Back	Front	Back	Front	Back
Testing Condition	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)*	370	261	375	264	380	268
Rated voltage (V_{mpp}/V) at STC	39.58	39.78	39.78	39.98	39.98	40.18
Rated current (I_{mpp}/A) at STC	9.35	6.55	9.43	6.61	9.51	6.66
Open circuit voltage (V_{oc}/V) at STC	48.05	46.63	48.24	46.82	48.43	47.00
Short circuit current (I_{sc}/A) at STC	9.88	6.93	9.95	6.98	10.03	7.03
Module efficiency	18.7%	13.2%	19.0%	13.4%	19.2%	13.5%
Temperature coefficient (P_{mpp})	- 0.376%/°C					
Temperature coefficient (I_{sc})	+0.043%/°C					
Temperature coefficient (V_{oc})	- 0.282%/°C					
Nominal module operating temperature (NMOT)	46±2°C					
Maximum system voltage (IEC/UL)	1500V _{DC}					
Number of diodes	3					
Junction box IP rating	IP 68					
Maximum series fuse rating	20 A					

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

CURVE



ELECTRICAL SPECIFICATIONS (Integrated power)

P_{mpp} gain	P_{mpp}	V_{mpp}	I_{mpp}	V_{oc}	I_{sc}
5%	394 Wp	39.78 V	9.90 A	48.24 V	10.45 A
10%	413 Wp	39.78 V	10.37 A	48.24 V	10.95 A
15%	431 Wp	39.68 V	10.87 A	48.34 V	11.44 A
20%	450 Wp	39.68 V	11.34 A	48.34 V	11.94 A
25%	469 Wp	39.68 V	11.81 A	48.34 V	12.44 A

Electrical characteristics with different rear power gain (reference to 375W)

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1980 x 998 x 30 mm 77.95 x 39.29 x 1.18 in
Module composition	Glass / POE / Glass
Glass thickness	2.5 mm / 0.098 in
Cable length (IEC/UL)	Portrait: 350 mm (13.78 in) Landscape: 1200 mm (47.24 in)
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class A (IEC) or Type 3 (UL)
Connector type (IEC/UL)	MC4 compatible

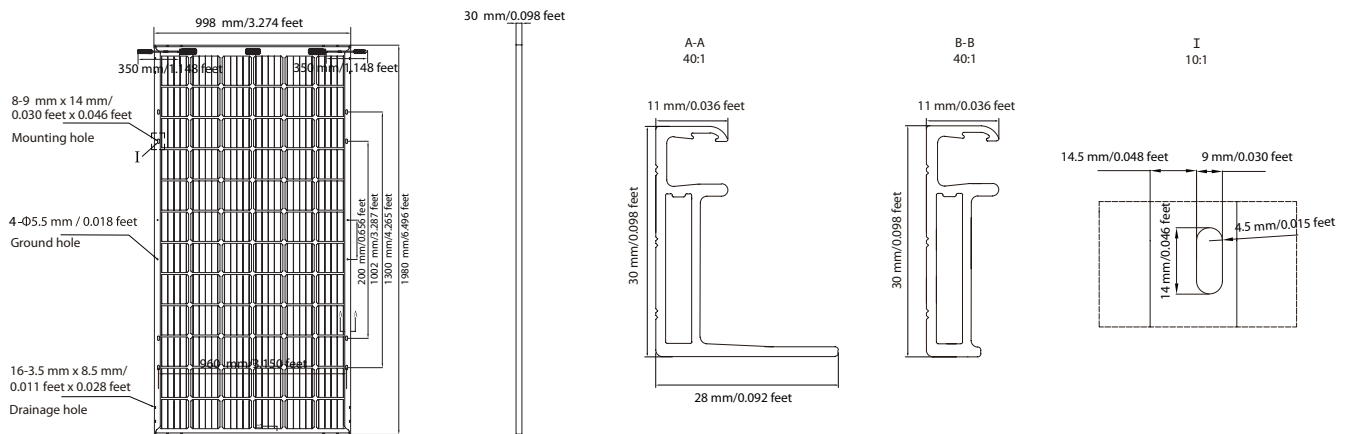
① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Weight (module only)	29.8 kg / 65.70 lbs
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	1122 kg / 2474 lbs
Number of modules per 40'HQ container	792 pcs

① Tolerance +/- 1.0kg
② Subject to sales contract

MODULE DIMENSION DETAILS



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