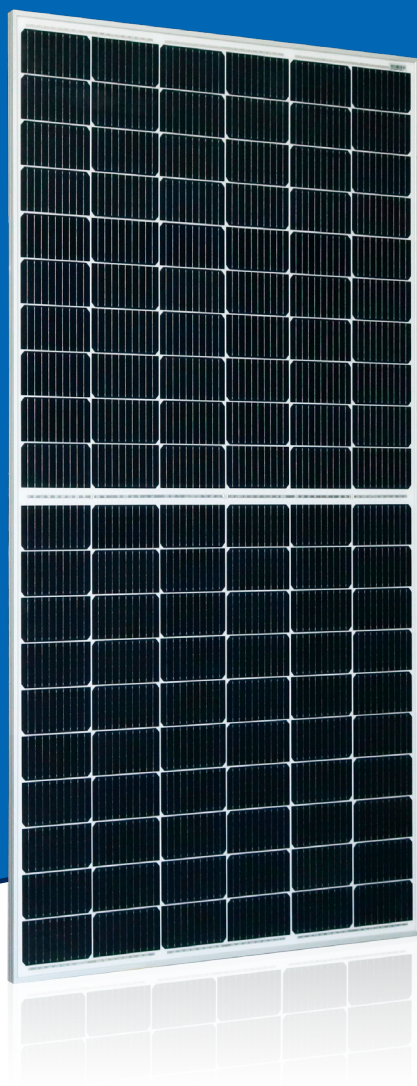


AstroTwins™

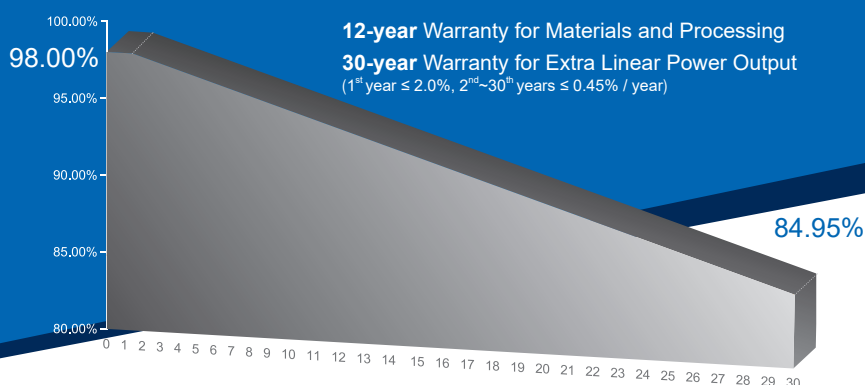
Enjoy the Energy of the Universe



365W~380W

P-type Monocrystalline PV Module
CHSM60M(DG)/F-BH Series (166)

CHSM60M(DG)/F-BH is bifacial module with white glazed glass



KEY FEATURES

- +5W OUTPUT POSITIVE TOLERANCE**
Guaranteed 0~+5W positive tolerance ensures power output reliability.
- 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.
- REDUCE INTERNAL MISMATCH LOSS**
Reduces mismatch loss and improves output.
- 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)	365 Wp		370 Wp		375 Wp		380 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)*	365	255	370	259	375	262	380	266
Rated voltage (V_{mpp}/V) at STC	34.11	34.65	34.39	35.00	34.66	35.17	34.93	35.42
Rated current (I_{mpp}/A) at STC	10.70	7.36	10.76	7.40	10.82	7.45	10.88	7.51
Open circuit voltage (V_{oc}/V) at STC	40.74	39.60	41.11	39.97	41.48	40.13	41.81	40.45
Short circuit current (I_{sc}/A) at STC	11.20	8.05	11.25	8.10	11.30	8.16	11.36	8.22
Module efficiency	19.4%	13.5%	19.6%	13.7%	19.9%	13.9%	20.2%	14.1%
Temperature coefficient (P_{mpp})	- 0.34%/°C							
Temperature coefficient (I_{sc})	+0.04%/°C							
Temperature coefficient (V_{oc})	- 0.27%/°C							
Nominal module operating temperature (NMOT)	44±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

ELECTRICAL SPECIFICATIONS (Integrated power)

P_{mpp} gain	P_{mpp}	V_{mpp}	I_{mpp}	V_{oc}	I_{sc}
5%	388 Wp	34.39 V	11.28 A	41.11 V	11.72 A
10%	407 Wp	34.39 V	11.83 A	41.11 V	12.30 A
15%	425 Wp	34.39 V	12.36 A	41.11 V	12.84 A
20%	444 Wp	34.29 V	12.95 A	41.21 V	13.38 A
25%	462 Wp	34.29 V	13.47 A	41.21 V	13.93 A

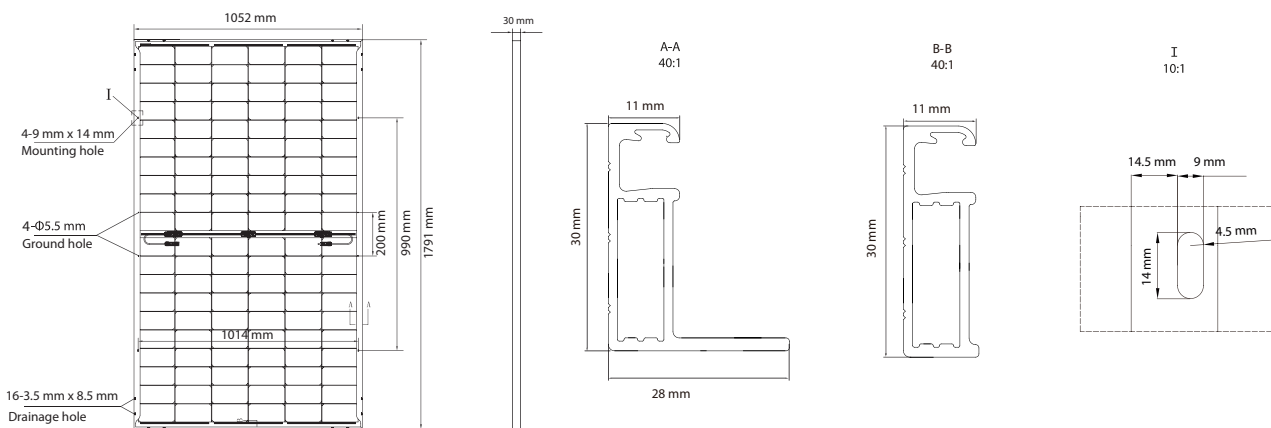
Electrical characteristics with different rear power gain (reference to 370W)

MECHANICAL SPECIFICATIONS

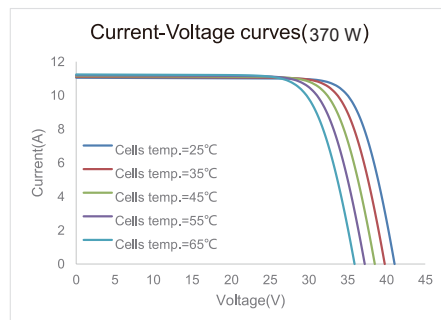
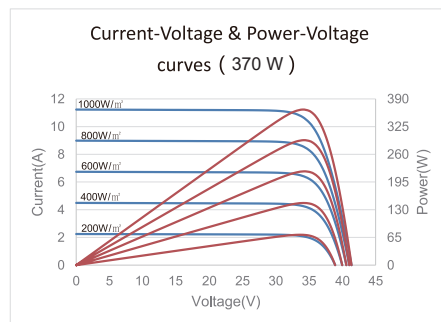
Outer dimensions (L x W x H)	1791 x 1052 x 30 mm
Frame technology	Aluminum, silver anodized
Glass thickness	2.0 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1200 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4 compatible

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

MODULE DIMENSION DETAILS



CURVE



PACKING SPECIFICATIONS

① Weight (module only)	23.5 kg
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	891 kg
Number of modules per 40'HQ container	864 pcs

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