

AstroTwins™

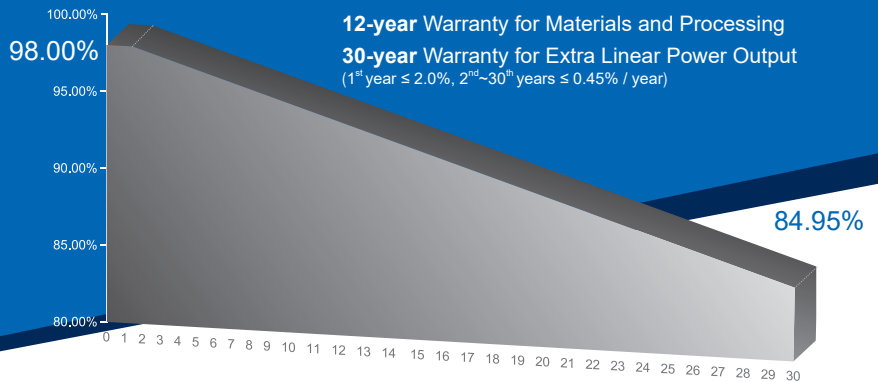
Enjoy the Energy of the Universe



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 ensure power output reliability.
- EXCELLENT WEATHER RESISTANCE**
Reduce the cell micro cracking 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**
Reduce mismatch loss and improve 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**
Reduce 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



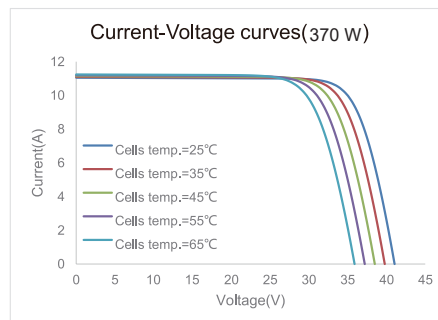
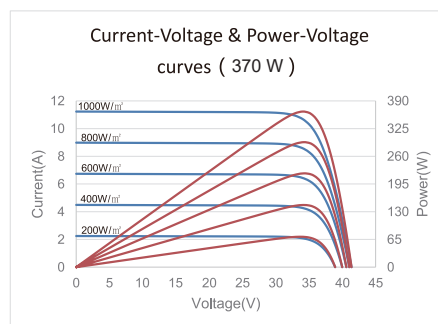
ASTROENERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

Power rating (front)	365 Wp		370 Wp		375 Wp		380 Wp	
	Front	Back	Front	Back	Front	Back	Front	Back
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

CURVE



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)

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

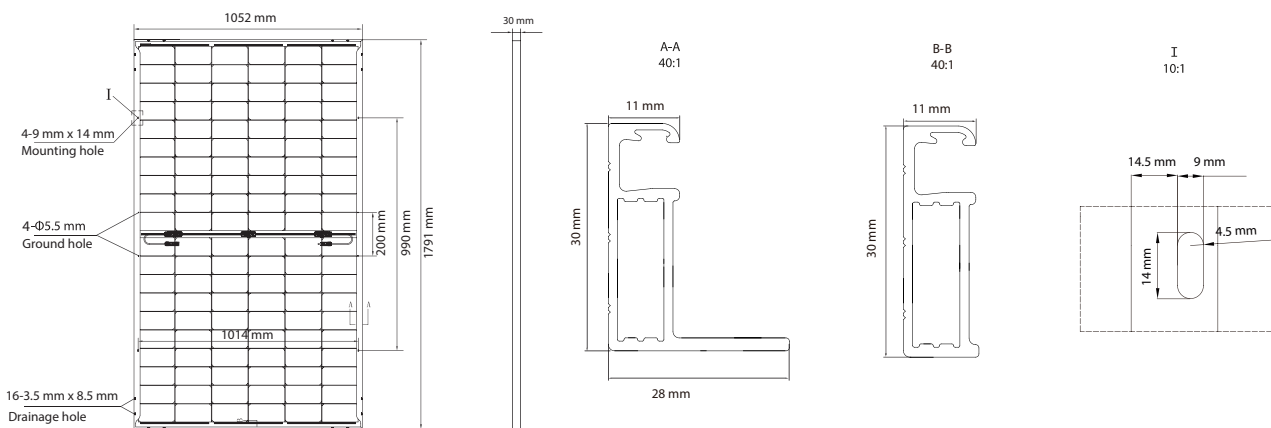
① Tolerance +/- 1.0kg
② Subject to sales contract

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1791 x 1052 x 30 mm
Frame technology	Aluminum, black 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



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