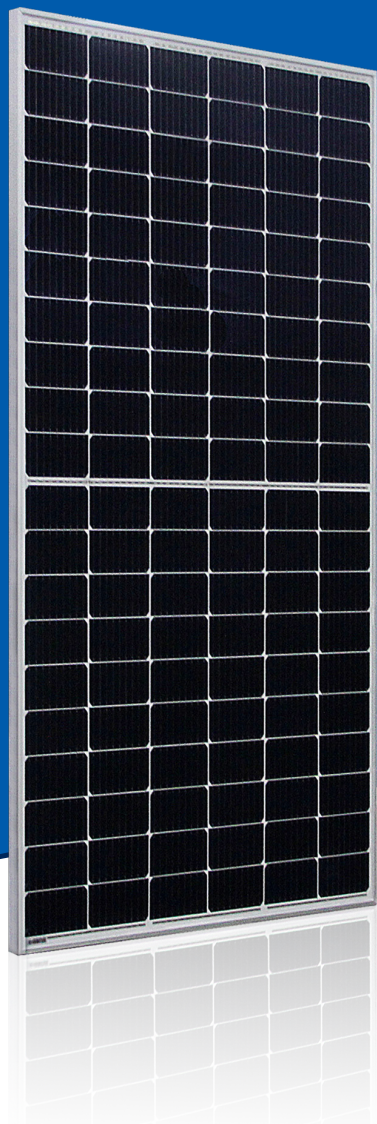


AstroTwins™

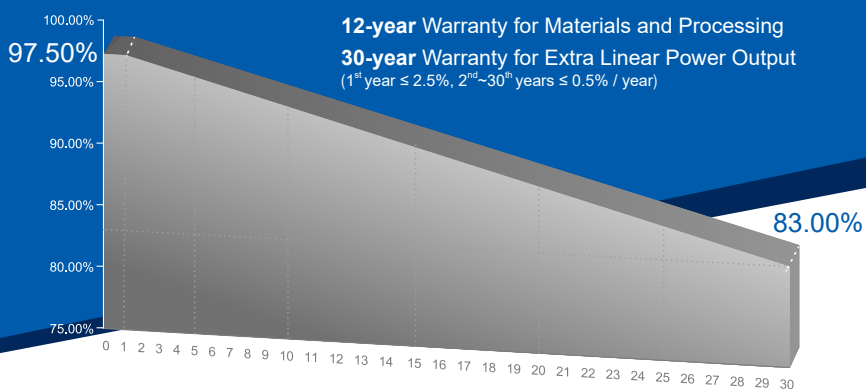
Enjoy the Energy of the Universe



350W~360W

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.
- 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.
- 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



Special for Australian Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

Power rating (front)	350 Wp		355 Wp		360 Wp	
	Front	Back	Front	Back	Front	Back
Testing Condition	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)*	350	245	355	248	360	252
Rated voltage (V_{mpp}/V) at STC	33.27	34.12	33.52	34.25	33.80	34.52
Rated current (I_{mpp}/A) at STC	10.52	7.18	10.59	7.24	10.65	7.30
Open circuit voltage (V_{oc}/V) at STC	39.81	38.86	40.12	38.99	40.47	39.42
Short circuit current (I_{sc}/A) at STC	10.99	7.88	11.06	7.95	11.12	7.99
Module efficiency	18.6%	13.0%	18.8%	13.2%	19.1%	13.4%
Temperature coefficient (P_{mpp})	- 0.3438%/°C					
Temperature coefficient (I_{sc})	+0.0353%/°C					
Temperature coefficient (V_{oc})	- 0.2722%/°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					

* Measurement tolerance +/- 3%
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	34.29 V	12.39 A	41.21 V	12.81 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

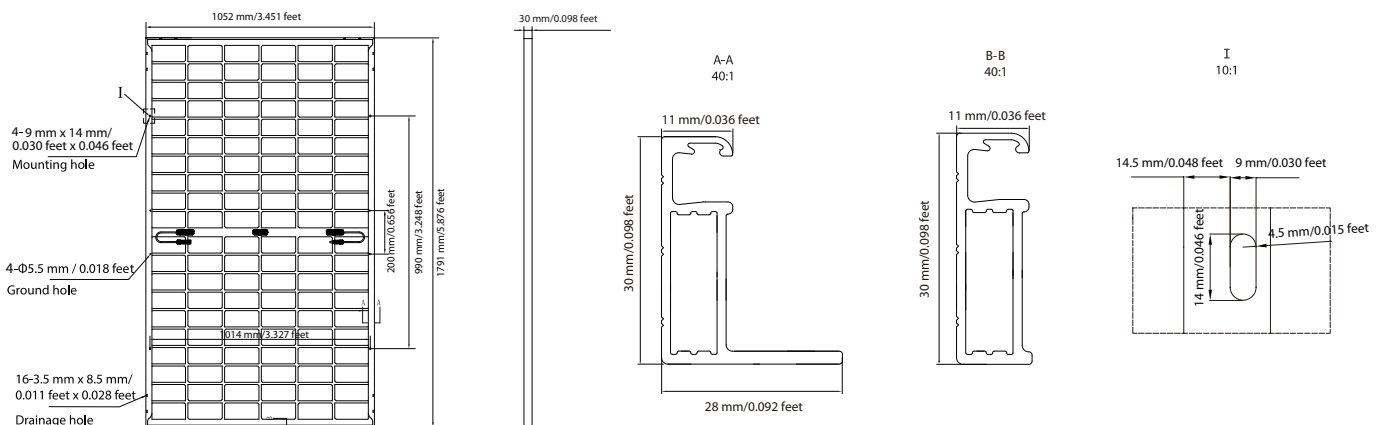
Measurement tolerance +/- 3%
Electrical characteristics with different rear power gain (reference to 370W)

MECHANICAL SPECIFICATIONS

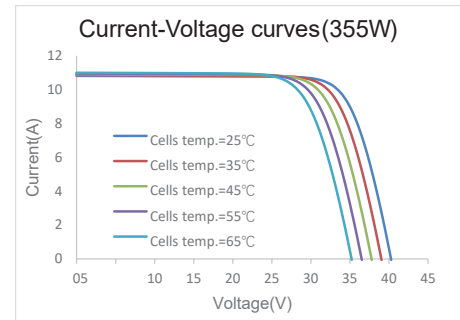
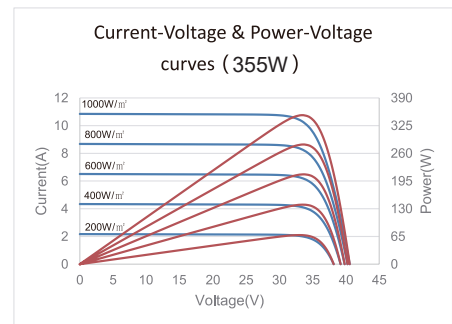
Outer dimensions (L x W x H)	1791 x 1052 x 30 mm 70.51 x 41.42 x 1.18 in
Module composition	Glass / POE/ Glass
Glass thickness	2.0 mm / 0.079 in
Cable length (IEC/UL)	Portrait: 350 mm (13.78 in) Landscape: 1200 mm (47.24 in)
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Fire performance (IEC/UL)	Class A (IEC) or Type 3 (UL)
Connector type (IEC/UL)	PV-CY03L (Logo:CHUANG YUAN) or PV-HCB40(Logo:XINHUI) or MH5 (Logo:MINGHE) or PV-KST4-EVO2/XY-UR,PV-KBT4-EVO2/XY-UR(Logo:MC)

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)	24.0 kg / 52.91 lbs
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	905 kg / 1995 lbs
Number of modules per 40'HQ container	864 pcs

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