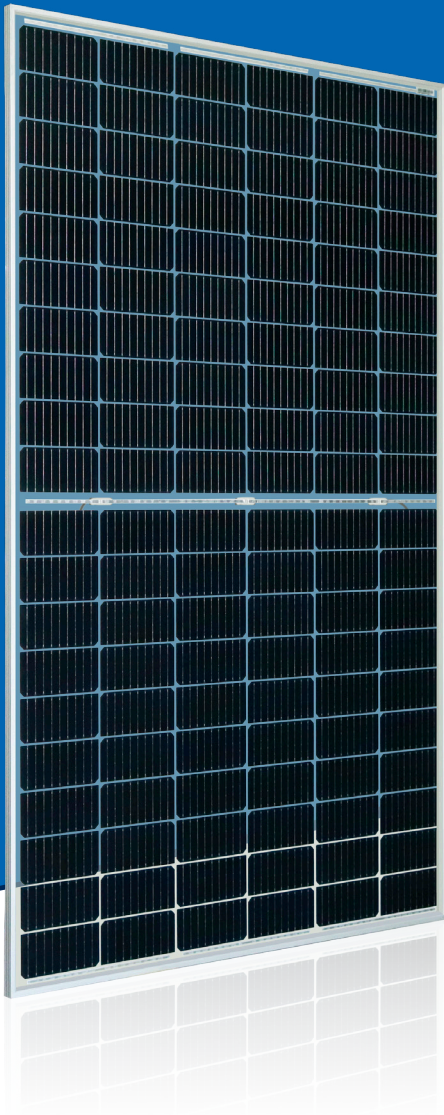


# AstroTwins™

Enjoy the Energy of the Universe

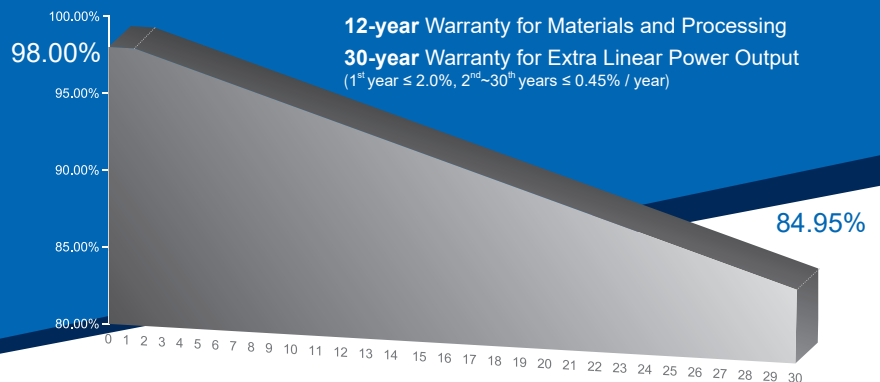


## 355W~370W

P-type Monocrystalline PV Module

CHSM60M(DGT)/F-BH Series (166)

CHSM60M(DGT)/F-BH is bifacial module with high transparent 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



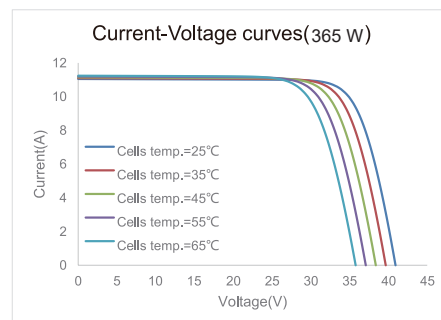
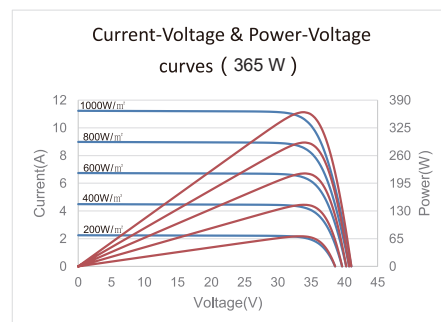
**ASTRONERGY**  
A CHNT COMPANY

## ELECTRICAL SPECIFICATIONS

Power rating (front)	355 Wp		360 Wp		365 Wp		370 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output ( $P_{mpp}/Wp$ )*	355	266	360	270	365	273	370	277
Rated voltage ( $V_{mpp}/V$ ) at STC	33.24	30.12	33.52	30.37	33.77	30.54	34.04	30.74
Rated current ( $I_{mpp}/A$ ) at STC	10.68	8.83	10.74	8.89	10.81	8.94	10.87	9.01
Open circuit voltage ( $V_{oc}/V$ ) at STC	40.26	36.26	40.61	36.61	40.84	36.78	41.14	37.08
Short circuit current ( $I_{sc}/A$ ) at STC	11.12	9.25	11.18	9.30	11.27	9.36	11.34	9.42
Module efficiency	18.8%	14.1%	19.1%	14.3%	19.4%	14.5%	19.6%	14.7%
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 <sub>DC</sub>							
Number of diodes	3							
Junction box IP rating	IP 68							
Maximum series fuse rating	20 A							

STC: Irradiance 1000W/m<sup>2</sup>, 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%	383 Wp	33.77 V	11.34 A	40.84 V	11.65 A
10%	401 Wp	33.77 V	11.87 A	40.84 V	12.20 A
15%	419 Wp	33.77 V	12.41 A	40.84 V	12.74 A
20%	438 Wp	33.67 V	13.01 A	40.94 V	13.29 A
25%	456 Wp	33.67 V	13.54 A	40.94 V	13.84 A

Electrical characteristics with different rear power gain (reference to 365W)

## 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 <sup>2</sup> / 12 AWG
① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4 compatible

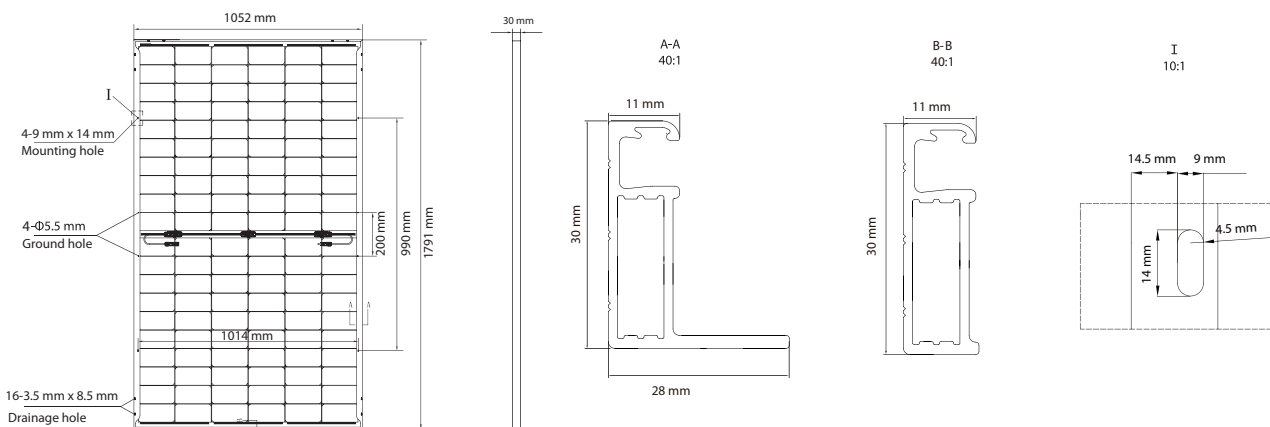
① Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

## 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

## MODULE DIMENSION DETAILS



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