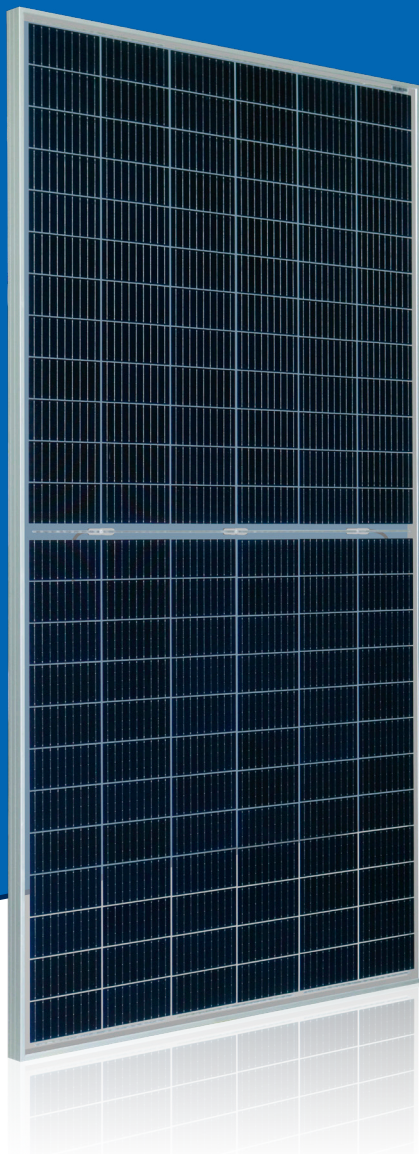


AstroTwins™

Enjoy the Energy of the Universe

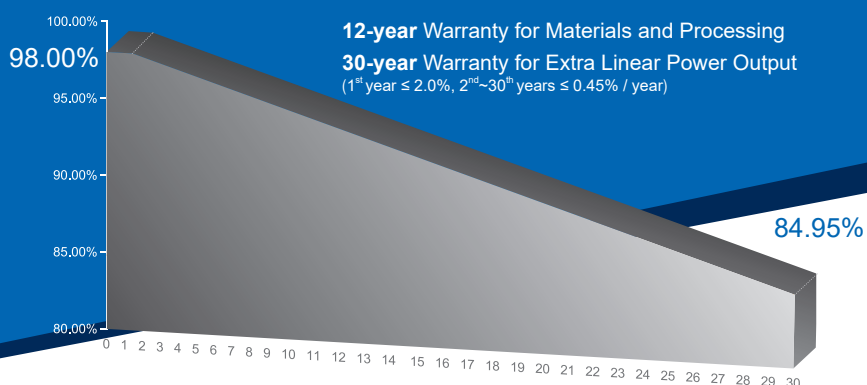


390W~405W

P-type Monocrystalline PV Module

CHSM72M(DGT)/F-BH Series (158.75)

CHSM72M(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



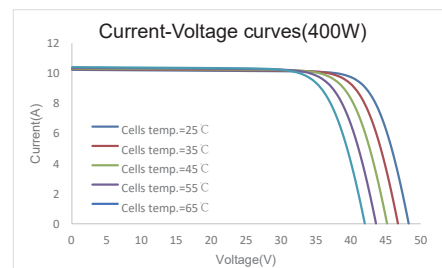
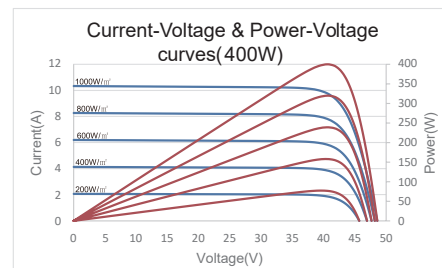
ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

Power rating (front)	390 Wp		395 Wp		400 Wp		405 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)*	390	293	395	296	400	300	405	304
Rated voltage (V_{mpp}/V) at STC	40.46	41.01	40.69	41.24	40.92	41.47	41.13	41.68
Rated current (I_{mpp}/A) at STC	9.64	7.13	9.71	7.19	9.78	7.24	9.85	7.29
Open circuit voltage (V_{oc}/V) at STC	47.98	46.54	48.16	46.72	48.34	46.89	48.52	47.06
Short circuit current (I_{sc}/A) at STC	10.13	7.50	10.21	7.56	10.29	7.61	10.37	7.67
Module efficiency	18.9%	14.2%	19.2%	14.4%	19.4%	14.6%	19.7%	14.8%
Temperature coefficient (P_{mpp})	- 0.35%/°C							
Temperature coefficient (I_{sc})	+0.04%/°C							
Temperature coefficient (V_{oc})	- 0.28%/°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%	420 Wp	40.92 V	10.26 A	48.34 V	10.80 A
10%	440 Wp	40.92 V	10.75 A	48.34 V	11.32 A
15%	460 Wp	40.82 V	11.27 A	48.44 V	11.83 A
20%	480 Wp	40.82 V	11.76 A	48.44 V	12.35 A
25%	500 Wp	40.82 V	12.25 A	48.44 V	12.86 A

Electrical characteristics with different rear power gain (reference to 400W)

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2038 x 1010 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

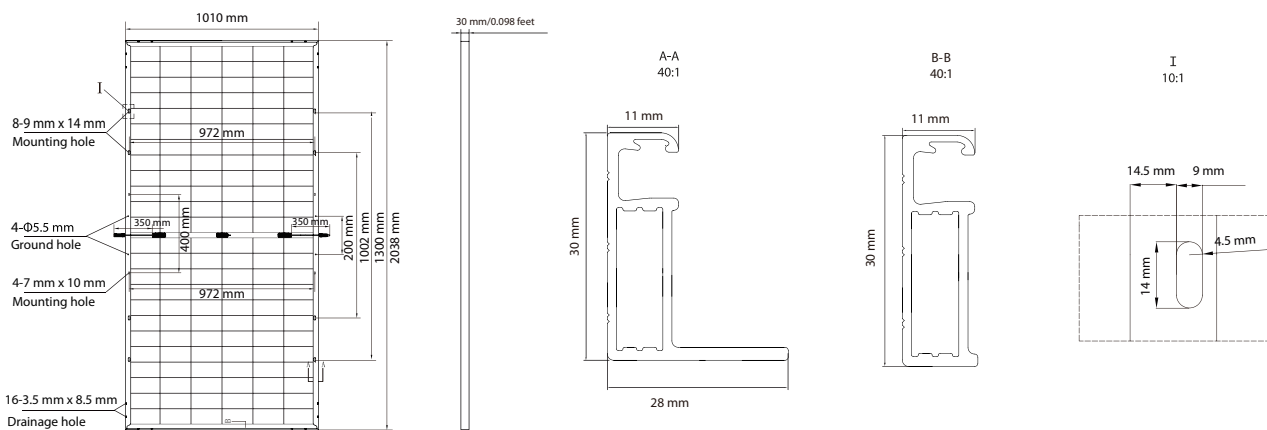
① Refer to Astronergy crystalline installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Weight (module only)	26.3 kg
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	994 kg
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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