AstroTwins™

Enjoy the Energy of the Universe



400W~415W

P-type Monocrystalline PV Module CHSM72M(DG)/F-BH Series (158.75)

CHSM72M(DG)/F-BH is bifacial module with white glazed glass











KEY FEATURES



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 vaper transmittance.



First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

COMPREHENSIVE CERTIFICATES



TUV NORD

ELECTRICAL SPECIFICATIONS								
Power rating (front)	400 Wp		405 Wp		410 Wp		415 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P _{mpp} /Wp)*	400	282	405	285	410	289	415	292
Rated voltage (V _{mpp} /V) at STC	40.67	40.88	40.89	41.10	41.10	41.31	41.31	41.52
Rated current (Impp/A) at STC	9.84	6.89	9.91	6.94	9.98	6.99	10.05	7.04
Open circuit voltage (Voc/V) at STC	48.24	46.82	48.42	46.99	48.60	47.17	48.78	47.34
Short circuit current (Isc/A) at STC	10.30	7.22	10.38	7.28	10.46	7.33	10.54	7.39
Module efficiency	19.4%	13.7%	19.7%	13.8%	19.9%	14.0%	20.2%	14.2%
Temperature coefficient (P _{mpp})	- 0.35%/°C							
Temperature coefficient (Isc)	+0.04%/°C							
Temperature coefficient (V∞)	- 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

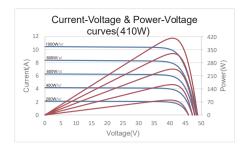
ELECTRICAL SPECIFICATIONS (Integrated power)							
P _{mpp} gain	Pmpp	V_{mpp}	Impp	Voc	Isc		
5%	431 Wp	41.10 V	10.47 A	48.60 V	10.98 A		
10%	451 Wp	41.10 V	10.97 A	48.60 V	11.51 A		
15%	472 Wp	41.00 V	11.50 A	48.70 V	12.03 A		
20%	492 Wp	41.00 V	12.00 A	48.70 V	12.55 A		
25%	513 Wp	41.00 V	12.50 A	48.70 V	13.08 A		

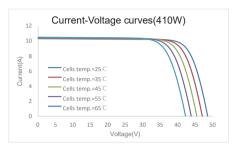
Electrical characteristics with different rear power gain (reference to 410W)

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 mm² / 12 AWG			
^① Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)			
Connector type (IEC/UL)	MC4 compatible			

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

CURVE

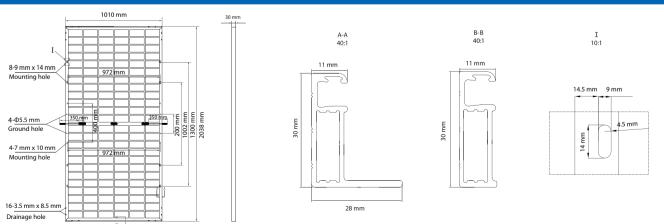




PACKING SPECIFICATIONS			
^① Weight (module only)	26.3 kg		
^② Packing unit	36 pcs / box		
Weight of packing unit (for 40'HQ container)	994 kg		
Number of modules per 40'HQ container	792 pcs		

[©] Tolerance +/- 1.0kg
© Subject to sales contract

MODULE DIMENSION DETAILS



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http://energy.chint.com

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