AstroTwins™

Enjoy the Energy of the Universe



COMPREHENSIVE CERTIFICATES



















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

300W~310W

P-type Monocrystalline PV Module CHSM60M(DGT)/F-B Series (156.75)

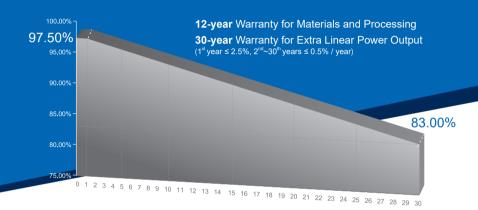
CHSM60M(DGT)/F-B is bifacial module with high transparent glass











KEY FEATURES



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.



LOW-LIGHT IRRADIANCE

The excellent performance at the haze, cloudy days and other low light conditions.



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.



ELECTRICAL SPECIFICATIONS							
Power rating (front)	300 Wp		305 Wp		310 Wp		
Testing Condition	Front	Back	Front	Back	Front	Back	
STC rated output (Pmpp/Wp)*	300	225	305	229	310	233	
Rated voltage (V _{mpp} /V) at STC	33.30	33.73	33.52	33.98	33.74	34.19	
Rated current (Impp/A) at STC	9.01	6.67	9.10	6.73	9.19	6.80	
Open circuit voltage (V∞/V) at STC	40.08	38.88	40.28	39.07	40.48	39.27	
Short circuit current (Isc/A) at STC	9.52	7.04	9.60	7.10	9.68	7.17	
Module efficiency	18.1%	13.6%	18.4%	13.8%	18.7%	14.0%	
Temperature coefficient (P _{mpp})	- 0.380%/°C						
Temperature coefficient (Isc)	+0.042%/°C						
Temperature coefficient (Voc)	- 0.284%/°C						
Nominal module operating temperature (NMOT)	46±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						

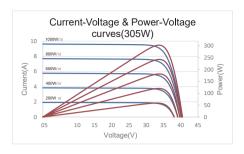
STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

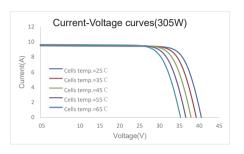
ELECTRICAL SPECIFICATIONS (Integrated power)								
P _{mpp} gain	Pmpp	V_{mpp}	Impp	Voc	Isc			
5%	320 Wp	33.52 V	9.55 A	40.28 V	10.08 A			
10%	336 Wp	33.52 V	10.01 A	40.28 V	10.56 A			
15%	351 Wp	33.42 V	10.50 A	40.38 V	11.04 A			
20%	366 Wp	33.42 V	10.95 A	40.38 V	11.52 A			
25%	381 Wp	33.42 V	11.41 A	40.38 V	12.00 A			

Electrical characteristics with different rear power gain (reference to 305W)

MECHANICAL SPECIFICATIONS 1664 x 998 x 30 mm Outer dimensions (L x W x H) 65.51 x 39.29 x 1.18 in Module composition Glass / POE / Glass Glass thickness 2.5 mm / 0.098 in Portrait: 350 mm (13.78 in) Cable length (IEC/UL) Landscape: 1000 mm (39.37 in) Cable diameter (IEC/UL) 4 mm² / 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) MC4 compatible

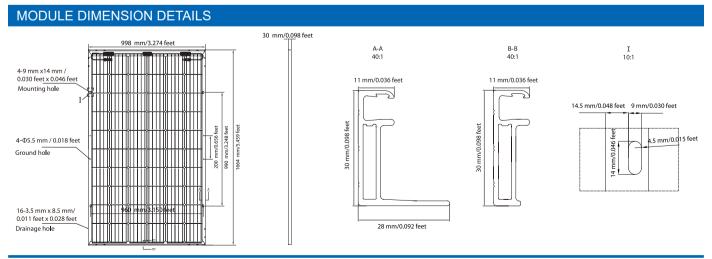
CURVE





PACKING SPECIFICATIONS				
^① Weight (module only)	25.0 kg / 55.12 lbs			
^② Packing unit	36 pcs / box			
Weight of packing unit (for 40'HQ container)	939 kg / 2070 lbs			
Number of modules per 40'HQ container	1008 pcs			

[©] Tolerance +/- 1.0kg



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http://energy.chint.com

Astronergy 10-2019

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

Subject to sales contract