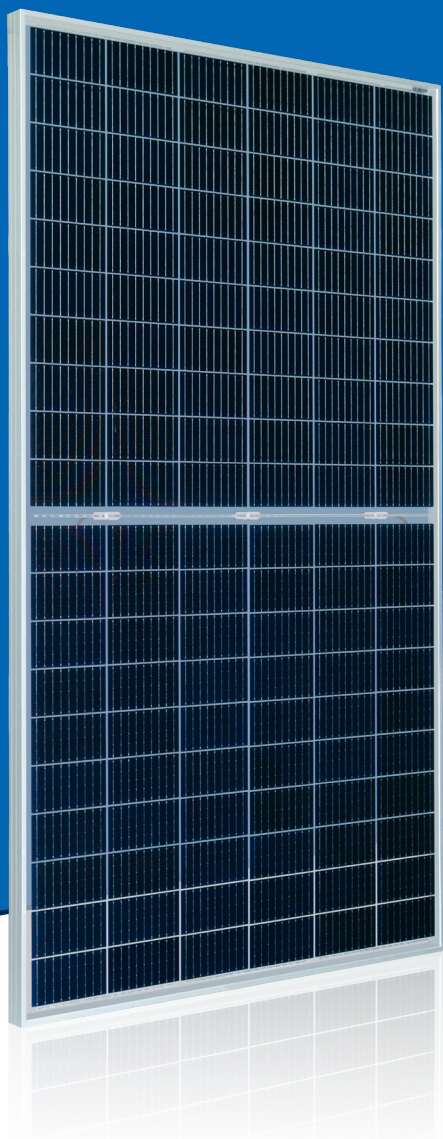


AstroTwins™

Enjoy the Energy of the Universe

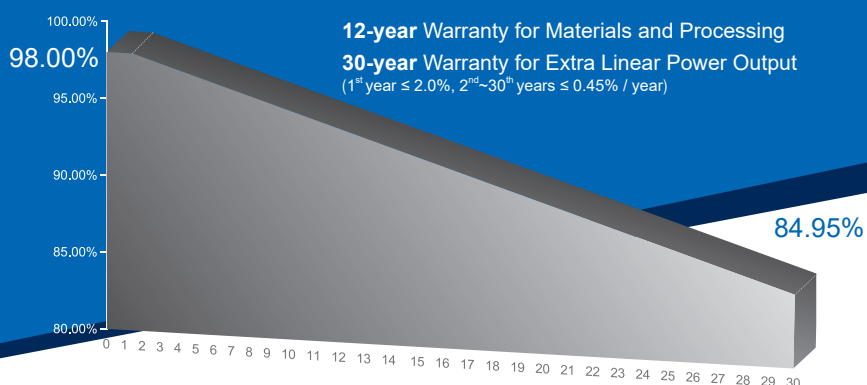


325W~340W

P-type Monocrystalline PV Module

CHSM60M(DGT)/F-BH Series (158.75)

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

COMPREHENSIVE CERTIFICATES



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

For Global Market



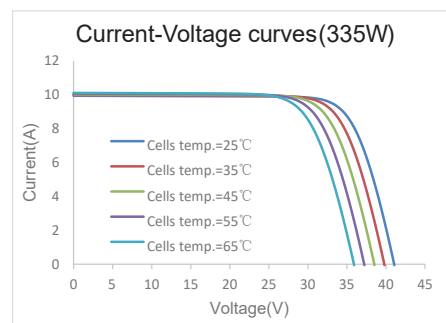
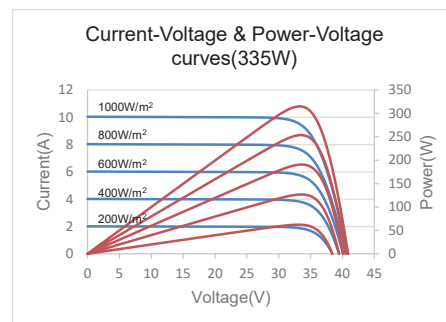
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ELECTRICAL SPECIFICATIONS

Power rating (front)	325 Wp		330 Wp		335 Wp		340 Wp	
	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)*	325	244	330	248	335	251	340	255
Rated voltage (V_{mpp}/V) at STC	34.15	34.61	34.39	34.86	34.62	35.09	34.85	35.32
Rated current (I_{mpp}/A) at STC	9.52	7.04	9.60	7.10	9.68	7.16	9.76	7.22
Open circuit voltage (V_{oc}/V) at STC	40.63	39.41	40.82	39.59	41.01	39.78	41.20	39.96
Short circuit current (I_{sc}/A) at STC	9.93	7.35	10.00	7.40	10.07	7.45	10.14	7.50
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 _{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%	352 Wp	34.62 V	10.16 A	41.01 V	10.57 A
10%	369 Wp	34.62 V	10.64 A	41.01 V	11.08 A
15%	385 Wp	34.52 V	11.16 A	41.11 V	11.58 A
20%	402 Wp	34.52 V	11.64 A	41.11 V	12.08 A
25%	419 Wp	34.52 V	12.13 A	41.11 V	12.59 A

Electrical characteristics with different rear power gain (reference to 335W)

PACKING SPECIFICATIONS

① Weight (module only)	22.1 kg
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	838 kg
Number of modules per 40'HQ container	936 pcs

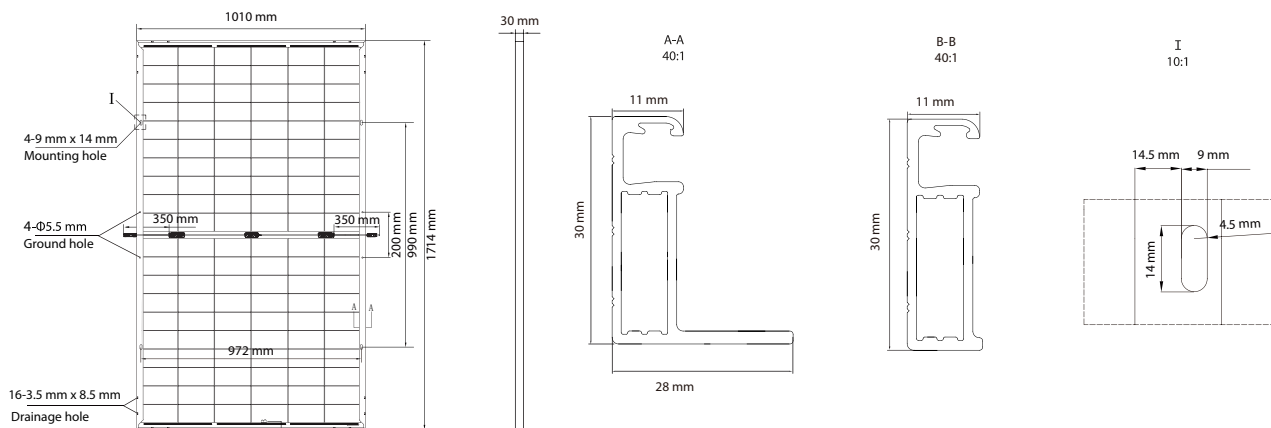
① Tolerance +/- 1.0kg
② Subject to sales contract

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1714 x 1010 x 30 mm
Frame technology	Aluminum, silver anodized
Glass thickness	2.0 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1100 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.

MODULE DIMENSION DETAILS



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