

ASTRO 6 Twins

Create Sustainable and Efficient Green Energy



ASTRONERGY

A CHINT COMPANY

580W~600W

Monocrystalline PV Module
CHSM60M(DG)/F-BH Series (210)



KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance to ensure power output.



NON-DESTRUCTIVE CUTTING

Higher bending strength of cells and mechanical properties of modules.



HIGH CUSTOMER VALUE

Up to 25% additional power gain, lower BOS cost and LCOE.



INNOVATIONAL HALF-CUT&MULTI-BUSBAR TECHNOLOGY

Lower risk of microcrack, better shading tolerance, higher reliability.



SUPER PERC+ CELL TECHNOLOGY

Higher module power and module efficiency, lower power degradation.



APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS

Wide range of applications, such as snow areas, high humidity areas and strong sandstorm areas, etc.

WARRANTY

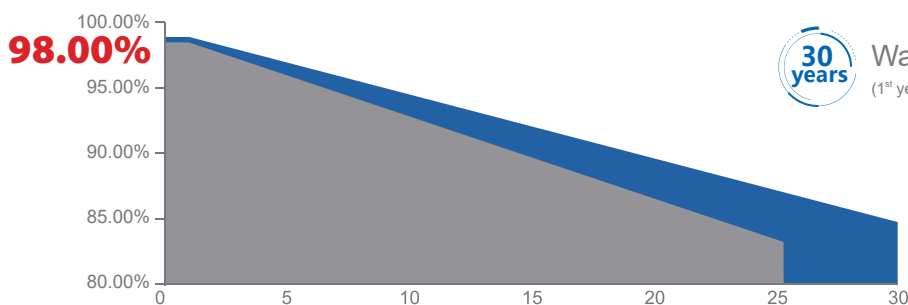


Warranty for Materials and Processing



Warranty for Extra Linear Power Output

(1st year ≤ 2.0%, 2nd~30th years ≤ 0.45% / year)



■ Double glass Product Linear Performance Warranty ■ Regular Product Linear Performance Warranty

Preliminary
Designed for the Australian Market



ELECTRICAL SPECIFICATIONS

Power rating (front)	580 Wp		585 Wp		590 Wp		595 Wp		600 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)	580	406	585	410	590	413	595	417	600	420
Rated voltage (V_{mpp}/V) at STC	33.80	33.81	34.00	34.01	34.20	34.21	34.40	34.41	34.61	34.62
Rated current (I_{mpp}/A) at STC	17.16	12.01	17.21	12.06	17.26	12.08	17.30	12.12	17.34	12.14
Open circuit voltage (V_{oc}/V) at STC	40.90	40.89	41.10	41.09	41.30	41.29	41.50	41.49	41.70	41.69
Short circuit current (I_{sc}/A) at STC	18.21	12.75	18.26	12.78	18.31	12.82	18.36	12.85	18.41	12.89
Module efficiency	20.5%	14.3%	20.7%	14.5%	20.8%	14.6%	21.0%	14.7%	21.2%	14.8%
Temperature coefficient (P_{mpp})	- 0.34%/°C									
Temperature coefficient (I_{sc})	+ 0.04%/°C									
Temperature coefficient (V_{oc})	- 0.25%/°C									
Nominal module operating temperature (NMOT)	43±2°C									
Maximum system voltage (IEC/UL)	1500V _{DC}									
Number of diodes	3									
Junction box IP rating	IP 68									
Maximum series fuse rating	35 A									

Power Sorting: 0~+5W

* Measurement tolerance +/- 3.5%

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

ELECTRICAL SPECIFICATIONS (Integrated power)

P_{mpp} gain	P_{mpp}	V_{mpp}	I_{mpp}	V_{oc}	I_{sc}
5%	619 Wp	34.20 V	18.12 A	41.30 V	19.23 A
10%	649 Wp	34.20 V	18.99 A	41.30 V	20.14 A
15%	678 Wp	34.21 V	19.85 A	41.31 V	21.06 A
20%	708 Wp	34.21 V	20.71 A	41.31 V	21.97 A
25%	737 Wp	34.22 V	21.58 A	41.32 V	22.89 A

* Measurement tolerance +/- 3.5%

Electrical characteristics with different rear power gain (reference to 590W)

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	2172 x 1303 x 35 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	2.0 mm
Cable length (IEC/UL)	Portrait: 350 mm Landscape: 1400 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)	HCB40 or PV-KST4-EVO2/XY-UR, PVKBT4-EVO2/XY-UR(optional)

③ Refer to Astronergy crystalline installation manual or contact technical department.

Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Module Weight	35.9 kg
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	1152 kg
Number of modules per 40'HQ container	527 pcs

③ Tolerance +/- 1.0kg

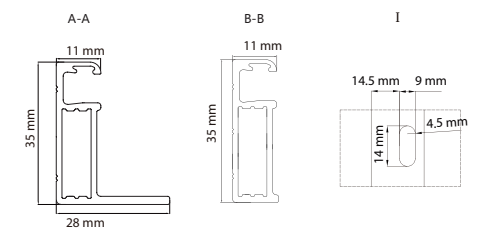
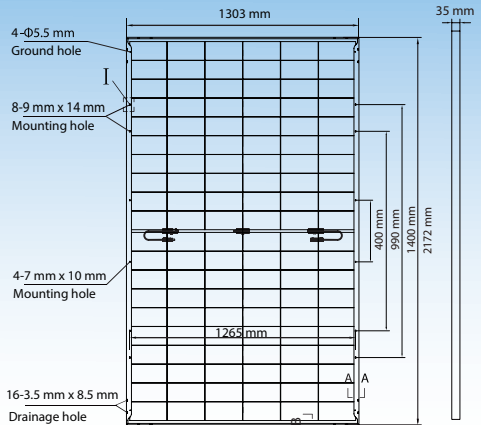
④ Subject to sales contract

Made in Zhejiang, Jiangsu and Anhui of China, Made in Sincan/ Ankara of Turkey

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MODULE DIMENSION DETAILS



CURVE

