

ASTRO 4 Twins

Create Sustainable and Efficient Green Energy



ASTRONERGY
A CHINT COMPANY

365W~380W

Monocrystalline PV Module
CHSM60M(DG)/F-BH Series (166)



+5W

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



INNOVATIONAL HALF-CUT TECHNOLOGY
Better shading tolerance, higher reliability.



INNOVATIONAL MULTI-BUSBAR TECHNOLOGY
Higher light absorption, lower risk of microcrack.



SUPER PERC+ CELL TECHNOLOGY
Higher module power and module efficiency, lower power degradation.

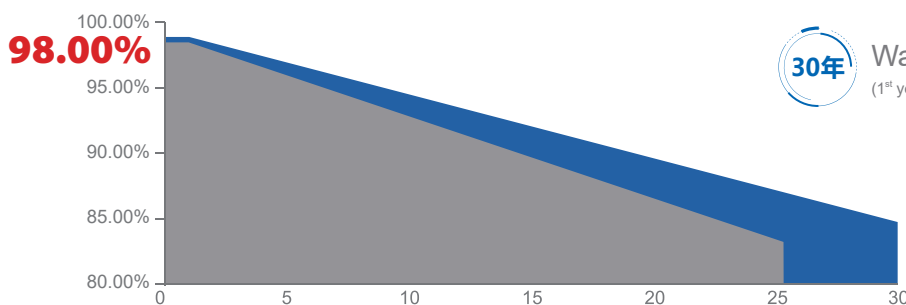


BIFACIAL POWER
Up to 25% additional power gain from rear side.



APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS
Wide range of applications, such as snow areas, high humidity areas and strong sandstorm areas, etc.

WARRANTY



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



Warranty for Materials and Processing



Warranty for Extra Linear Power Output
(1st year ≤ 2.0%, 2nd~30th years ≤ 0.45% / year)

For Global Market



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

ELECTRICAL SPECIFICATIONS

Power rating (front)	365 Wp		370 Wp		375 Wp		380 Wp	
Testing Condition	Front	Back	Front	Back	Front	Back	Front	Back
STC rated output (P_{mpp}/Wp)	365	255	370	259	375	262	380	266
Rated voltage (V_{mpp}/V) at STC	34.11	34.65	34.39	35.00	34.66	35.17	34.93	35.42
Rated current (I_{mpp}/A) at STC	10.70	7.36	10.76	7.40	10.82	7.45	10.88	7.51
Open circuit voltage (V_{oc}/V) at STC	40.74	39.60	41.11	39.97	41.48	40.13	41.81	40.45
Short circuit current (I_{sc}/A) at STC	11.20	8.05	11.25	8.10	11.3	8.16	11.36	8.22
Module efficiency	20.0%	14.0%	20.3%	14.2%	20.6%	14.4%	20.9%	14.6%
Temperature coefficient (P_{mpp})	- 0.35%/°C							
Temperature coefficient (I_{sc})	+ 0.050%/°C							
Temperature coefficient (V_{oc})	- 0.27%/°C							
Nominal module operating temperature (NMOT)	41±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	P_{mpp}	V_{mpp}	I_{mpp}	V_{oc}	I_{sc}
5%	393 Wp	34.66 V	11.34 A	41.48 V	11.77 A
10%	412 Wp	34.66 V	11.89 A	41.48 V	12.34 A
15%	431 Wp	34.66 V	12.44 A	41.48 V	12.91 A
20%	450 Wp	34.56 V	13.02 A	41.58 V	13.44 A
25%	468 Wp	34.56 V	13.54 A	41.58 V	13.98 A

Electrical characteristics with different rear power gain (reference to 375W)

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1755 x 1038 x 30 mm
Frame technology	Aluminum, silver anodized
Front glass thickness	2.0 mm
Cable length (IEC/UL)	Portrait: 300 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)	HCB40 / MC4-EVO2 (optional)

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

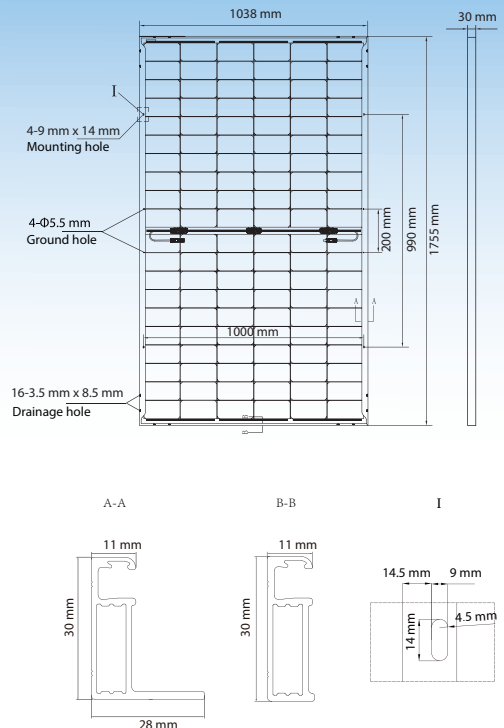
PACKING SPECIFICATIONS

① Module Weight	23.0 kg
② Packing unit	36 pcs / box
Weight of packing unit (for 40'HQ container)	873 kg
Number of modules per 40'HQ container	936 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

MODULE DIMENSION DETAILS



CURVE

