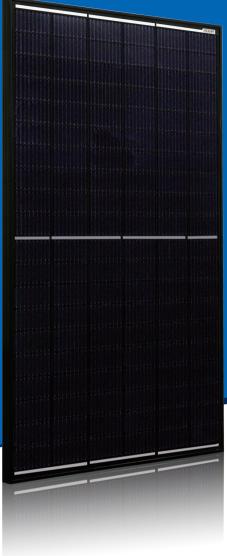
AstroSemi™

Incredible Power for Small Body



320W~330W

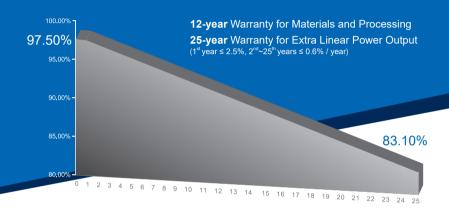
Monocrystalline PV Module CHSM60M(BL)-HC Series (158.75)











KEY FEATURES



OUTPUT POSITIVE TOLERANCE

Guaranteed 0~+5W positive tolerance ensures power output reliability.



INNOVATIONAL HALF-CELL TECHNOLOGY

Improves the module output, decreases the risk of mirco-crack, enhances the module reliability.



INNOVATIVE PERC CELL TECHNOLOGY

Excellent cell efficiency and output.



REDUCE SHADOW LOSS

Effectively reduces the effect of shadow on the module surface.



REDUCE INTERNAL MISMATCH LOSS

Reduces mismatch loss and improves output.



THE-STATE-OF-THE-ART APPEARANCE

Full black designed for a better aesthetic appearance and building integration.



PID RESISTANCE

Excellent PID resistance at 96 hours (@85°C /85%) test, and also can be improved to meet higher standards for the particularly harsh environment.





COMPREHENSIVE CERTIFICATES















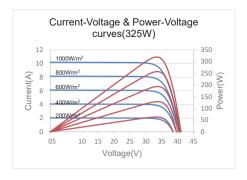
First solar company which passed the TUV Nord IEC/TS 62941 certification audit.

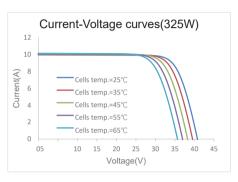
ELECTRICAL SPECIFICATIONS			
STC rated output (P _{mpp})*	320 Wp	325 Wp	330 Wp
Rated voltage (V _{mpp}) at STC	33.68 V	33.93 V	34.17 V
Rated current (Impp) at STC	9.50 A	9.58 A	9.66 A
Open circuit voltage (V∞) at STC	40.72 V	41.03 V	41.32 V
Short circuit current (Isc) at STC	9.98 A	10.06 A	10.14 A
Module efficiency	18.9%	19.2%	19.5%
Rated output (Pmpp) at NMOT	238.6 Wp	242.4 Wp	246.1 Wp
Rated voltage (V _{mpp}) at NMOT	31.39 V	31.63 V	31.85 V
Rated current (Impp) at NMOT	7.60 A	7.66 A	7.73 A
Open circuit voltage (V∞) at NMOT	38.28 V	38.57 V	38.85 V
Short circuit current (Isc) at NMOT	8.03 A	8.09 A	8.16 A
Temperature coefficient (P _{mpp})	- 0.3438%/°C		
Temperature coefficient (Isc)	+0.0353%/°C		
Temperature coefficient (Voc)	- 0.2722%/°C		
Nominal module operating temperature (NMOT)	44±2°C		
Maximum system voltage (IEC/UL)	1000V _{DC}		
Number of diodes	3		
Junction box IP rating	IP 67		
Maximum series fuse rating	20 A		



MECHANICAL SPECIFICATIONS 1692 x 1002 x 35 mm Outer dimensions (L x W x H) 66.61 x 39.45 x 1.38 in Aluminum, black anodized Frame technology Module composition Glass / EVA / Backsheet (black) Front glass thickness 3.2 mm / 0.13 in Portrait: 350 mm (13.78 in) Cable length (IEC/UL) Landscape: 1100 mm (43.31 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 C (IEC) or Type 1 (UL) Connector type (IEC/UL) MC4 compatible

CURVE

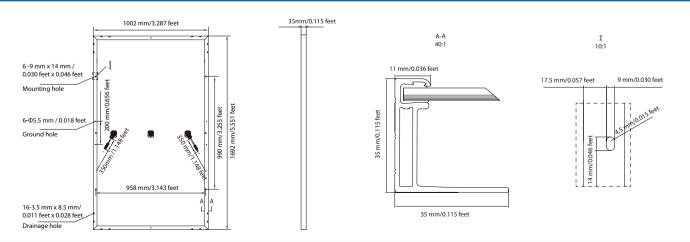




PACKING SPECIFICATIONS			
^① Weight (module only)	19.1 kg / 42.11 lbs		
^② Packing unit	31 pcs / box		
Weight of packing unit (for 40'HQ container)	631 kg / 139 lbs		
Number of modules per 40'HQ container	806 pcs		

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

MODULE DIMENSION DETAILS



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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.