AstroSemiTM Incredible Power for Small Body



Multi-Busbar Module could be the option





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

295W~315W

Monocrystalline PV Module CHSM60M-HC Series



2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

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





PASSED HAIL TEST

Certified to hail resistence: ice ball size (d=45mm) and ice ball velocity (v=30.7m/s).



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.



ELECTRICAL SPECIFICATIONS						
STC rated output (P _{mpp})*	295 Wp	300 Wp	305 Wp	310 Wp	315 Wp	
Rated voltage (V_{mpp}) at STC	32.50 V	32.73 V	32.94 V	33.15 V	33.35 V	
Rated current (Impp) at STC	9.08 A	9.17 A	9.26 A	9.35 A	9.44 A	
Open circuit voltage (V_{oc}) at STC	39.39 V	39.75 V	39.84 V	39.99 V	40.24 V	
Short circuit current ($I_{\rm sc}$) at STC	9.59 A	9.64 A	9.73 A	9.77 A	9.83 A	
Module efficiency	17.8%	18.2%	18.5%	18.8%	19.1%	
Rated output (P _{mpp}) at NOCT	216.8 Wp	220.5 Wp	224.1 Wp	227.8 Wp	231.5 Wp	
Rated voltage (V_{mpp}) at NOCT	29.93 V	30.13 V	30.34 V	30.54 V	30.74 V	
Rated current (Impp) at NOCT	7.24 A	7.32 A	7.39 A	7.46 A	7.53 A	
Open circuit voltage (V _{oc}) at NOCT	36.54 V	36.87 V	36.96 V	37.10 V	37.33 V	
Short circuit current (I_{sc}) at NOCT	7.71 A	7.75 A	7.83 A	7.86 A	7.91 A	
Temperature coefficient (P _{mpp})	- 0.380%/°C					
Temperature coefficient (Isc)	+0.042%/°C					
Temperature coefficient (Voc)	- 0.284%/°C					
Normal operating cell temperature (NOCT)	46±2°C					
Maximum system voltage (IEC/UL)	1500V _{DC}					
Number of diodes	3					
Junction box IP rating	IP 67					
Maximum series fuse rating	15 A					

* Measurement tolerance

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5 NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

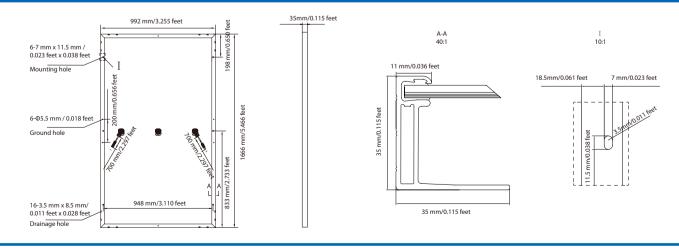
+/- 3%

MECHANICAL SPECIFICATIONS			
Outer dimensions (L x W x H)	1666 x 992 x 35 mm 65.59 x 39.06 x 1.38 in		
Frame technology	Aluminum, silver anodized		
Module composition	Glass / EVA / Backsheet (white)		
Front glass thickness	3.2 mm / 0.13 in		
^① Cable length (IEC/UL)	700 mm / 27.56 in		
Cable diameter (IEC/UL)	4 mm² / 12 AWG		
² Maximum mechanical test load	6000 Pa		
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)		
Connector type (IEC/UL)	MC4 compatible		

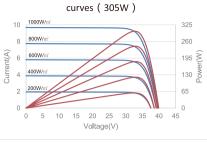
$^{\odot}$ Option: 1000 mm for defined projects in advance.

© Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

MODULE DIMENSION DETAILS

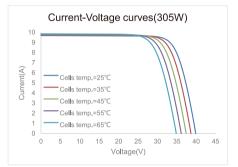


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Current-Voltage & Power-Voltage

CURVE



PACKING SPECIFICATIONS				
^① Weight (module only)	18.6 kg / 41.01 lbs			
² Packing unit	31 pcs / box			
Weight of packing unit (for 40'HQ container)	616 kg / 1358 lbs			
Number of modules per 40'HQ container	868 pcs			
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[©] Tolerance +/- 1.0kg [©] Subject to sales contract