AstroNova Profitable for Decades



275W~290W

5BB-Monocrystalline PV Module

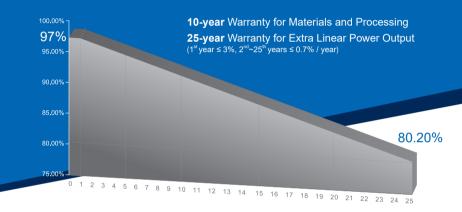
CHSM6610M(BL) Series











KEY FEATURES



OUTPUT POSITIVE TOLERANCE

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



INNOVATIONAL 5-BUSBAR CELLS

Reduces the cell series resistance and internal stress, decreases the risk of mirco-crack and improves the module output.



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.



EXCELLENT MECHANICAL LOAD CAPABILITY

Certified to withstand: snow load (6000 Pa) and wind load (3600 Pa).



THE-STATE-OF-THE-ART APPEARANCE

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



PASSED HAIL TEST

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



LOWER TEMPERATURE COEFFICIENT

Improved temperature coefficient decreases power loss in the high temperature application.

























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

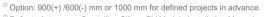
ELECTRICAL SPECIFICATIONS					
STC rated output (P _{mpp})*	275 Wp	280 Wp	285 Wp	290 Wp	
Rated voltage (V _{mpp}) at STC	31.10 V	31.48 V	31.80 V	32.15 V	
Rated current (Impp) at STC	8.84 A	8.91 A	8.97 A	9.03 A	
Open circuit voltage (Voc) at STC	38.36 V	38.83 V	39.15 V	39.45 V	
Short circuit current (Isc) at STC	9.38 A	9.41 A	9.46 A	9.54 A	
Module efficiency	16.9%	17.2%	17.5%	17.8%	
Rated output (Pmpp) at NOCT	202.1 Wp	205.8 Wp	209.4 Wp	213.1 Wp	
Rated voltage (V _{mpp}) at NOCT	28.64 V	28.95 V	29.27 V	29.58 V	
Rated current (Impp) at NOCT	7.06 A	7.11 A	7.16 A	7.20 A	
Open circuit voltage (Voc) at NOCT	35.58 V	36.02 V	36.32 V	36.60 V	
Short circuit current (Isc) at NOCT	7.54 A	7.57 A	7.61 A	7.67 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)	1000V _{DC}				
Number of diodes	3				
Junction box IP rating	IP 67				
Maximum series fuse rating	15 A				



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

NOC1: Irradiance 800W/m , Ambient Temperature 20°C, AM=1.5, Wind Speed Tm/s

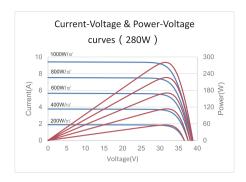
MECHANICAL SPECIFICATIONS			
Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in		
Frame technology	Aluminum, black anodized		
Module composition	Glass / EVA / Backsheet (black)		
Front glass thickness	3.2 mm / 0.13 in		
^① Cable length (IEC/UL)	900 mm / 35.43 in		
Cable diameter (IEC/UL)	4 mm² / 12 AWG		
[®] Maximum mechanical test load	6000 Pa		
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)		
Connector type (IEC/UL)	MC4 compatible		

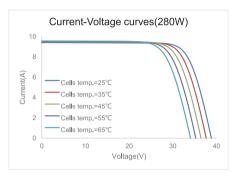


[©] Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department.

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

CURVE

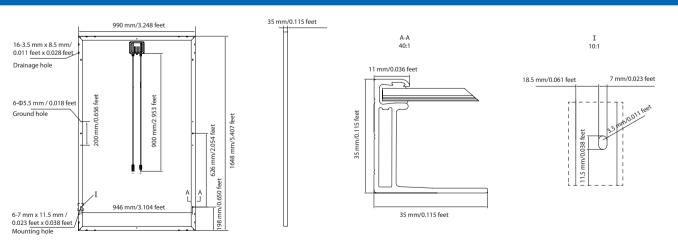




PACKING SPECIFICATIONS			
^① Weight (module only)	18.3 kg / 40.34 lbs		
^② Packing unit	31 pcs / box		
Weight of packing unit (for 40'HQ container)	606 kg / 1336 lbs		
Number of modules per 40'HQ container	868 pcs		

① Tolerance +/- 1.0kg

MODULE DIMENSION DETAILS



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Subject to sales contract