

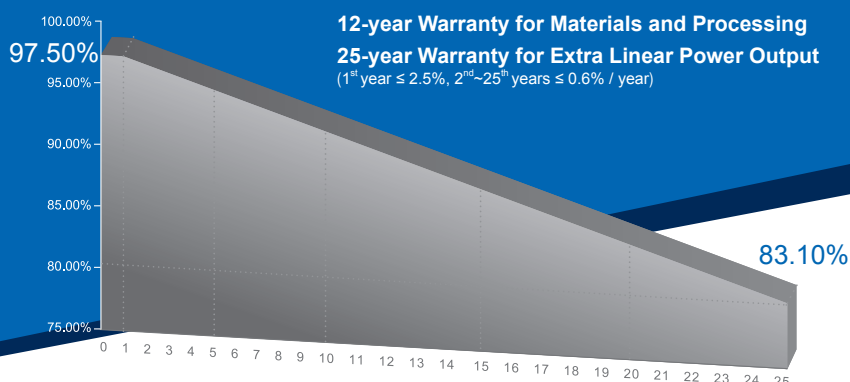
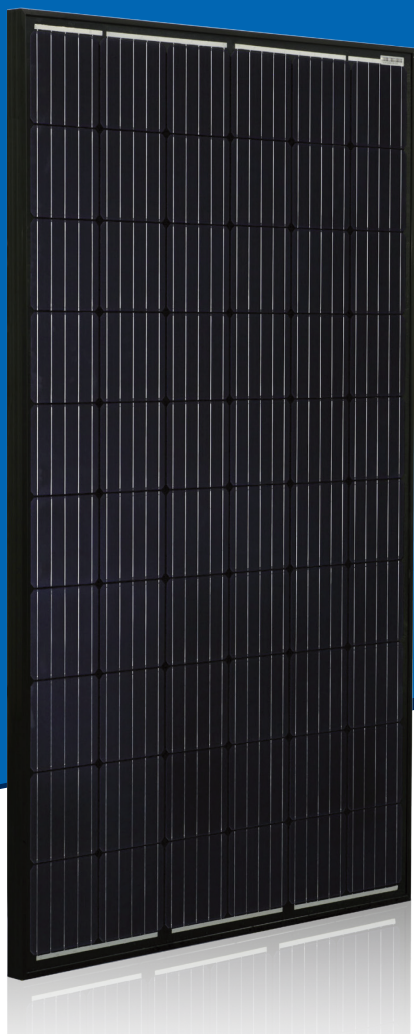
PENTA Premium™

High Tech Leads Industry

275W~290W

Monocrystalline PV Module

CHSM6610M(BL) Series



KEY FEATURES

- +5W 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 micro-crack and improves the module output.
- Anti PID 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 resistance: 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.

COMPREHENSIVE CERTIFICATES



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

ELECTRICAL SPECIFICATIONS

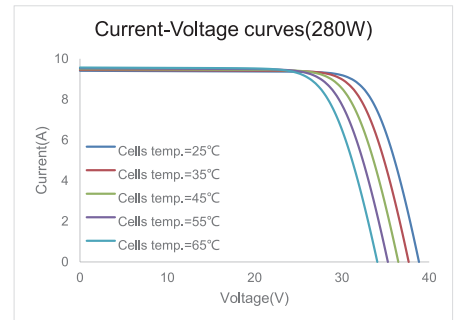
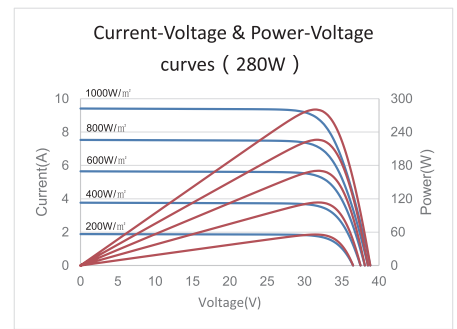
STC rated output (P_{mpp})*	275 Wp	280 Wp	285 Wp	290 Wp
Rated voltage (V_{mpp}) at STC	31.10 V	31.48 V	31.80 V	32.15 V
Rated current (I_{mpp}) at STC	8.84 A	8.91 A	8.97 A	9.03 A
Open circuit voltage (V_{oc}) at STC	38.36 V	38.83 V	39.15 V	39.45 V
Short circuit current (I_{sc}) at STC	9.38 A	9.41 A	9.46 A	9.54 A
Module efficiency	16.9%	17.2%	17.5%	17.8%
Rated output (P_{mpp}) 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 (I_{mpp}) at NOCT	7.06 A	7.11 A	7.16 A	7.20 A
Open circuit voltage (V_{oc}) at NOCT	35.58 V	36.02 V	36.32 V <td 36.60 V	
Short circuit current (I_{sc}) at NOCT	7.54 A	7.57 A	7.61 A	7.67 A
Temperature coefficient (P_{mpp})	- 0.380%/°C			
Temperature coefficient (I_{sc})	+0.042%/°C			
Temperature coefficient (V_{oc})	- 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			

* Measurement tolerance +/- 3%

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

CURVE



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1650 x 992 x 35 mm 64.96 x 39.06 x 1.38 in
Frame technology	Aluminum, black anodized
Module composition	Glass / EVA / Backsheet (black)
Front glass thickness	3.2 mm / 0.13 in
Cable length (IEC/UL)	1000 mm / 39.37 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	6000 Pa
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	MC4 (Stäubli) original

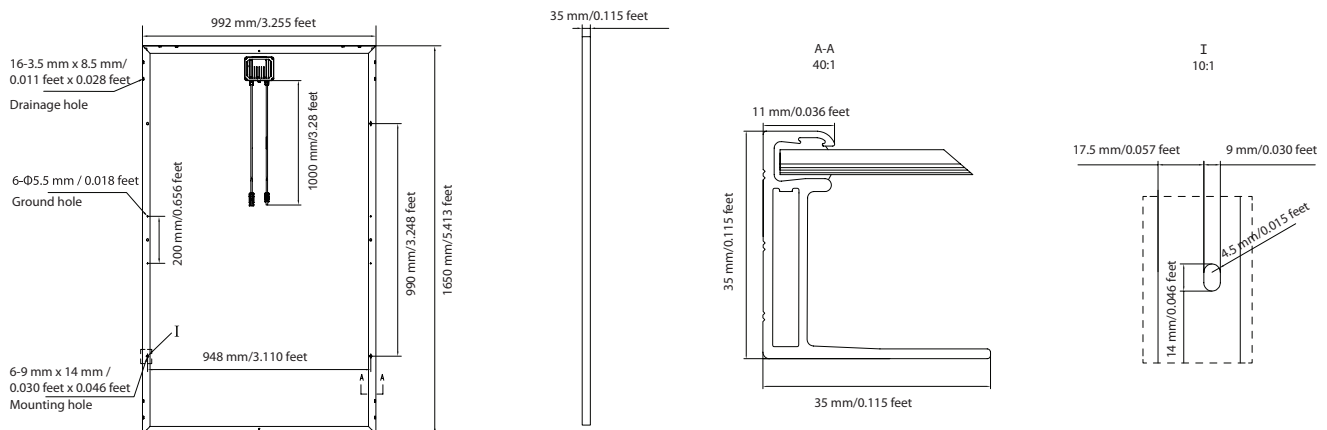
① Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department.
Maximum Mechanical Test Load=1.5*Maximum Mechanical Design Load.

PACKING SPECIFICATIONS

① Weight (module only)	18.4 kg / 40.57 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	609 kg / 1343 lbs
Number of modules per 40'HQ container	868 pcs

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

MODULE DIMENSION DETAILS



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