

AstroDual™

Reliable in Every Way



280W~305W

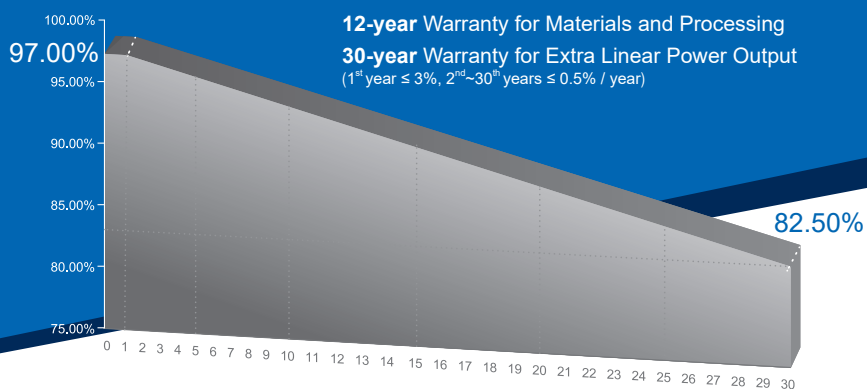
5BB-Monocrystalline PV Module

CHSM6610M(DG)/F Series (With Frame)

CHSM6610M(DGT)/F Series (With Frame)

CHSM6610M (DG)/F is double glass module with white encapsulate material

CHSM6610M (DGT)/F is double glass module with transparent encapsulate material



COMPREHENSIVE CERTIFICATES



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

KEY FEATURES

- 
ENHANCED FIRE PERFORMANCE
 Fire Class A certified according to IEC standard.
- 
EXCELLENT WEATHER RESISTANCE
 Reduces the cell micro-crack and extended product warranty.
- 
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.
- 
FRAMED DOUBLE GLASS STRUCTURE
 Similar to conventional modules design, better correspond with installation requirements in current market.
- 
APPLICABLE FOR MULTI DIFFERENT ENVIRONMENTS
 Transparent or white encapsulate material available.
- 
SNAIL TRAIL RESISTANCE
 Reduces the probability of snail trails with zero water vapor transmittance.
- 
STRONGER STRUCTURE
 Better cell micro-crack resistance.

For Global Market



ASTRONERGY
A CHNT COMPANY

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	280 Wp	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp
Rated voltage (V_{mpp}) at STC	31.66 V	31.95 V	32.22 V	32.45 V	32.50 V	32.73 V
Rated current (I_{mpp}) at STC	8.85 A	8.92 A	9.00 A	9.09 A	9.23 A	9.32 A
Open circuit voltage (V_{oc}) at STC	39.05 V	39.39 V	39.59 V	39.84 V	39.82 V	39.97 V
Short circuit current (I_{sc}) at STC	9.33 A	9.39 A	9.49 A	9.55 A	9.70 A	9.74 A
Module efficiency	16.9%	17.2%	17.5%	17.8%	18.1%	18.4%
Rated output (P_{mpp}) at NOCT	205.8 Wp	209.4 Wp	213.1 Wp	216.8 Wp	220.5 Wp	224.1 Wp
Rated voltage (V_{mpp}) at NOCT	29.16 V	29.43 V	29.68 V	29.89 V	29.94 V	30.14 V
Rated current (I_{mpp}) at NOCT	7.06 A	7.12 A	7.18 A	7.25 A	7.36 A	7.44 A
Open circuit voltage (V_{oc}) at NOCT	36.22 V	36.54 V	36.72 V	36.96 V	36.94 V	37.08 V
Short circuit current (I_{sc}) at NOCT	7.50 A	7.55 A	7.63 A	7.68 A	7.80 A	7.83 A
Temperature coefficient (P_{mpp})	- 0.408%/°C					
Temperature coefficient (I_{sc})	+0.044%/°C					
Temperature coefficient (V_{oc})	- 0.301%/°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 +/- 3%

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

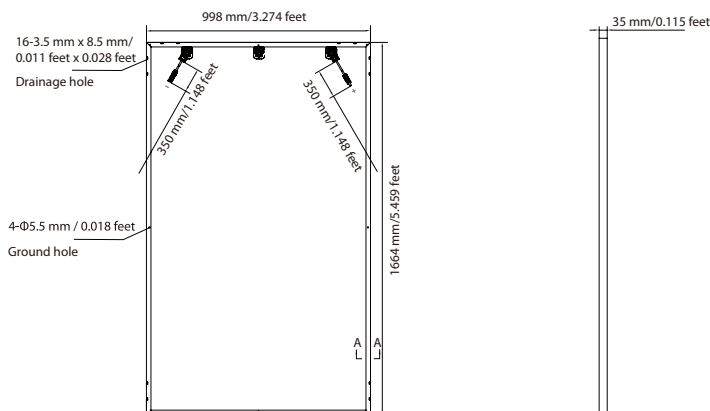
NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1664 x 998 x 35 mm 65.51 x 39.29 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA or POE / Glass
Front glass thickness	2.5 mm / 0.098 in
Cable length (IEC/UL)	350mm / 13.78 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical test load	7000 Pa
Fire performance (IEC/UL)	Class A (IEC) or Type 3 (UL)
Connector type (IEC/UL)	MC4 compatible

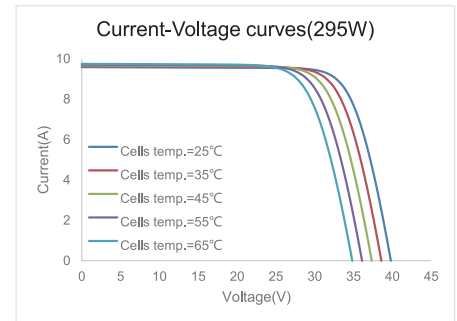
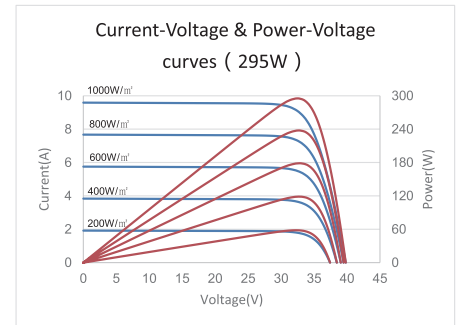
① Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

MODULE DIMENSION DETAILS



* No mounting hole on the frame

CURVE



PACKING SPECIFICATIONS

① Weight (module only)	25.1 kg / 55.34 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	817 kg / 1801 lbs
Number of modules per 40'HQ container	868 pcs

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