

AstroDual™

Reliable in Every Way



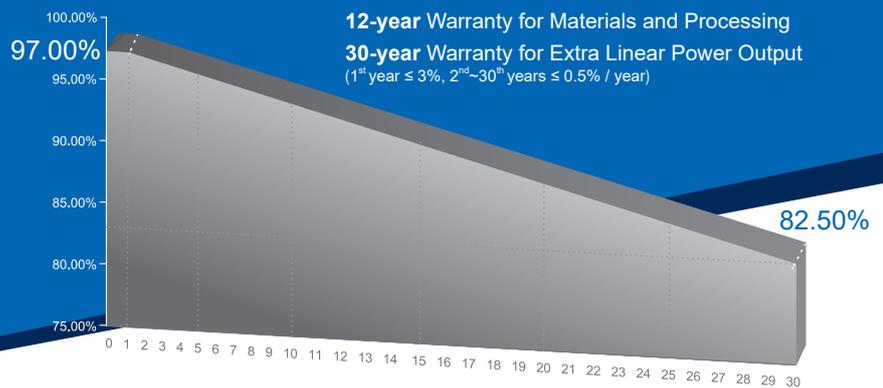
335W~360W

5BB-Monocrystalline PV Module

CHSM6612M(DG)/F Series (With Frame)

CHSM6612M(DGT)/F Series (With Frame)

CHSM6612M (DG)/F is double glass module with white encapsulate material
 CHSM6612M (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



ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	335 Wp	340 Wp	345 Wp	350 Wp	355 Wp	360 Wp
Rated voltage (V_{mpp}) at STC	38.01 V	38.28 V	38.51 V	38.80 V	38.93 V	39.05 V
Rated current (I_{mpp}) at STC	8.82 A	8.88 A	8.96 A	9.02 A	9.12 A	9.22 A
Open circuit voltage (V_{oc}) at STC	46.29 V	46.65 V	46.96 V	47.27 V	47.41 V	47.52 V
Short circuit current (I_{sc}) at STC	9.35 A	9.40 A	9.47 A	9.54 A	9.64 A	9.73 A
Module efficiency	17.0%	17.3%	17.5%	17.8%	18.0%	18.3%
Rated output (P_{mpp}) at NOCT	246.7 Wp	250.4 Wp	254.1 Wp	257.8 Wp	261.5 Wp	265.1 Wp
Rated voltage (V_{mpp}) at NOCT	35.07 V	35.36 V	35.56 V	35.83 V	35.95 V	36.06 V
Rated current (I_{mpp}) at NOCT	7.03 A	7.08 A	7.15 A	7.19 A	7.27 A	7.35 A
Open circuit voltage (V_{oc}) at NOCT	42.92 V	43.25 V	43.54 V	43.83 V	43.96 V	44.06 V
Short circuit current (I_{sc}) at NOCT	7.51 A	7.55 A	7.61 A	7.67 A	7.75 A	7.82 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

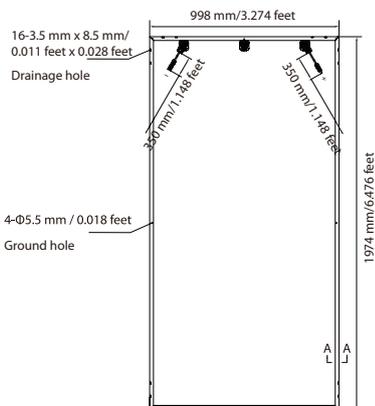
NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

MECHANICAL SPECIFICATIONS

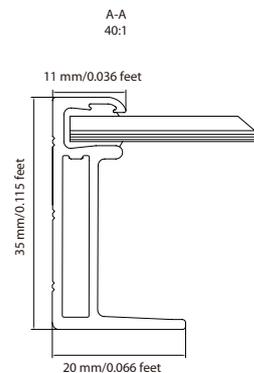
Outer dimensions (L x W x H)	1974 x 998 x 35 mm 77.72 x 39.29 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA or POE / Glass
Front glass thickness	2.5 mm / 0.098 in
Cable length (IEC/UL)	350mm / 13.78 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Maximum mechanical 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.

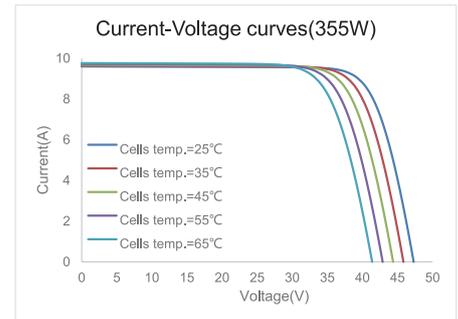
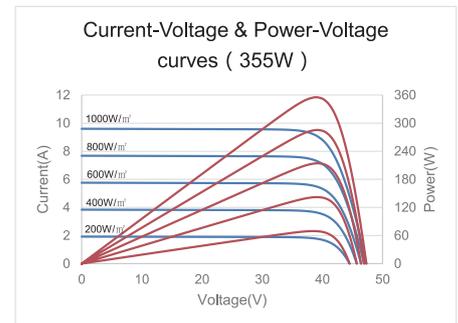
MODULE DIMENSION DETAILS



* No mounting hole on the frame



CURVE



PACKING SPECIFICATIONS

① Weight (module only)	30.3 kg / 66.80 lbs
② Packing unit	31 pcs / box
Weight of packing unit (for 40'HQ container)	984 kg / 2169 lbs
Number of modules per 40'HQ container	682 pcs

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