

AstroDual™

Reliable in Every Way



280W~305W

5BB-Monocrystalline PV Module

CHSM6610M(DG) Series (Frameless)

CHSM6610M(DGT) Series (Frameless)

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

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

Tier 1

Bloomberg

No.1

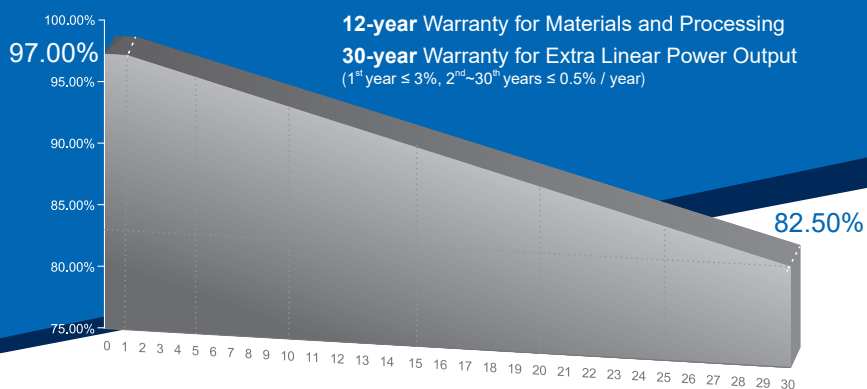
PHOTON

MunichRe

Insured

DNV GL

2018 TOP Performance



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 FREE

Excellent PID resistance, 1000 hours (@85°C /85%) ability for frameless design.



OPTIONAL BACK RAIL QUICK INSTALLATION

Effectively improves the installation efficiency comparing with the conventional clamping installation.



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	17.0%	17.3%	17.6%	17.9%	18.2%	18.5%
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} / 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

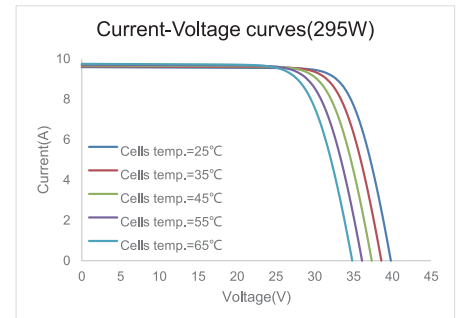
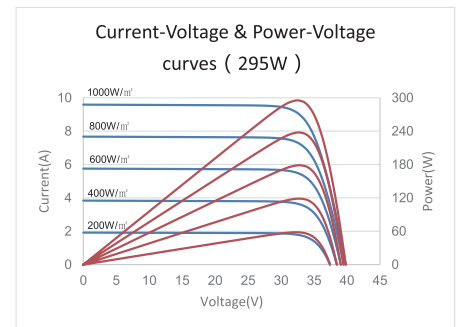
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1658 x 992 x 6 mm 65.27 x 39.06 x 0.24 in
Module composition	Glass / EVA or POE / Glass
Front glass thickness	2.5 mm / 0.098 in
① Cable length (IEC/UL)	250(+)/200(-) mm / 9.84 / 7.87 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
② Maximum mechanical test load	7000 Pa
Fire performance (IEC/UL)	Class A (IEC) or Type 3 (UL)
Connector type (IEC/UL)	MC4 compatible

① Positive:250mm,negative:200mm

② Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department.
Maximum Mechanical Test Load=1.5*Maximum Mechanical Design Load.

CURVE



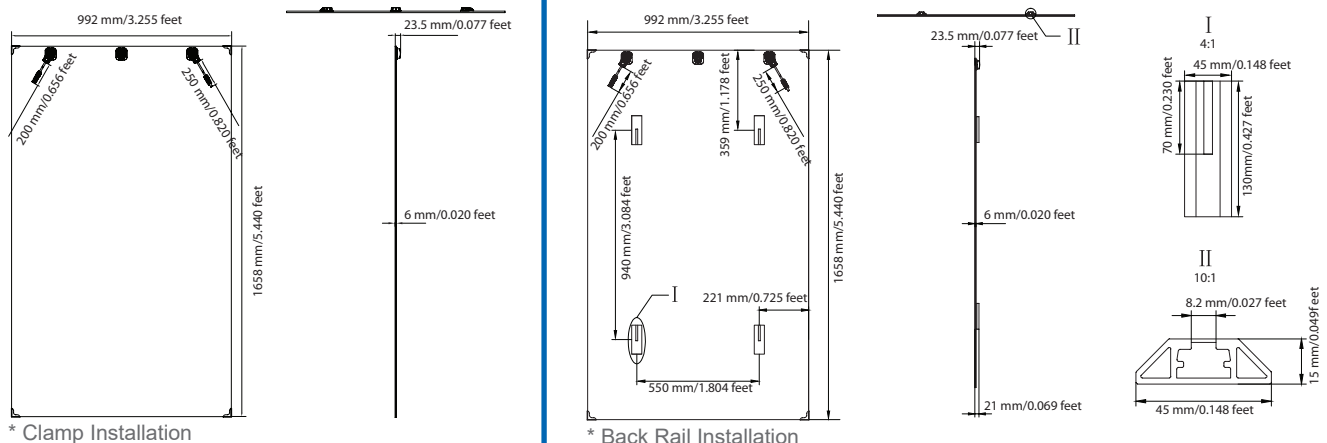
PACKING SPECIFICATIONS

① Weight (module only)	23 kg / 50.71 lbs (without back rail)
	23.4 kg / 51.59 lbs (with back rail)
② Packing unit	33 pcs / box
Weight of packing unit (for 40'HQ container)	821 kg / 1810 lbs (without back rail)
	834 kg / 1839 lbs (with back rail)
Number of modules per 40'HQ container	858 pcs

① Tolerance +/- 1.0kg

② Subject to sales contract

MODULE DIMENSION DETAILS



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