

AstroDual™

Reliable in Every Way



265W~290W

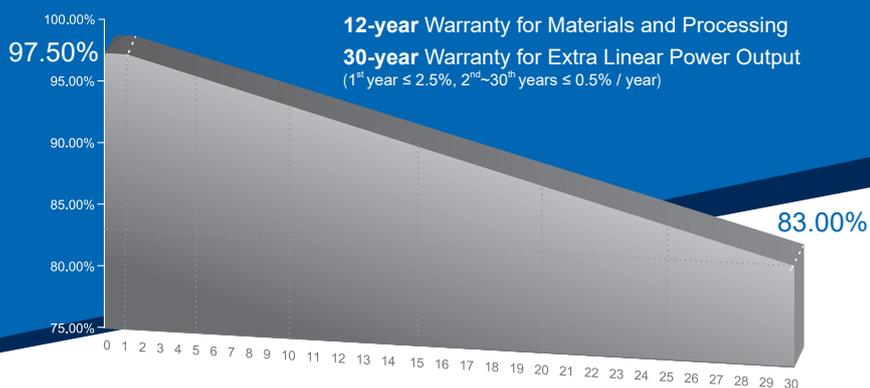
5BB-Polycrystalline PV Module

CHSM6610P(DG) Series (Frameless)

CHSM6610P(DGT) Series (Frameless)

CHSM6610P (DG) is double glass module with white encapsulate material
 CHSM6610P (DGT) is double glass module with transparent encapsulate material

Tier 1 Bloomberg	No.1 PHOTON	MunichRe Insured	DNV GL 2018 TOP Performance
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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})*	265 Wp	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
Rated voltage (V_{mpp}) at STC	30.97 V	31.07 V	31.12 V	31.25 V	31.44 V	31.56 V
Rated current (I_{mpp}) at STC	8.56 A	8.69 A	8.84 A	8.96 A	9.07 A	9.19 A
Open circuit voltage (V_{oc}) at STC	37.90 V	38.19 V	38.53 V	38.78 V	39.02 V	39.26 V
Short circuit current (I_{sc}) at STC	9.14 A	9.31 A	9.51 A	9.56 A	9.65 A	9.74 A
Module efficiency	16.1%	16.4%	16.7%	17.0%	17.3%	17.6%
Rated output (P_{mpp}) at NOCT	198.8 Wp	202.5 Wp	206.3 Wp	210.0 Wp	213.8 Wp	217.5 Wp
Rated voltage (V_{mpp}) at NOCT	28.05 V	28.15 V	28.18 V	28.31 V	28.47 V	28.59 V
Rated current (I_{mpp}) at NOCT	7.09 A	7.19 A	7.32 A	7.42 A	7.51 A	7.61 A
Open circuit voltage (V_{oc}) at NOCT	34.62 V	34.89 V	35.20 V	35.43 V	35.65 V	35.87 V
Short circuit current (I_{sc}) at NOCT	7.70 A	7.84 A	8.01 A	8.05 A	8.12 A	8.20 A
Temperature coefficient (P_{mpp})	- 0.400%/°C					
Temperature coefficient (I_{sc})	+0.044%/°C					
Temperature coefficient (V_{oc})	- 0.299%/°C					
Normal operating cell temperature (NOCT)	43±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

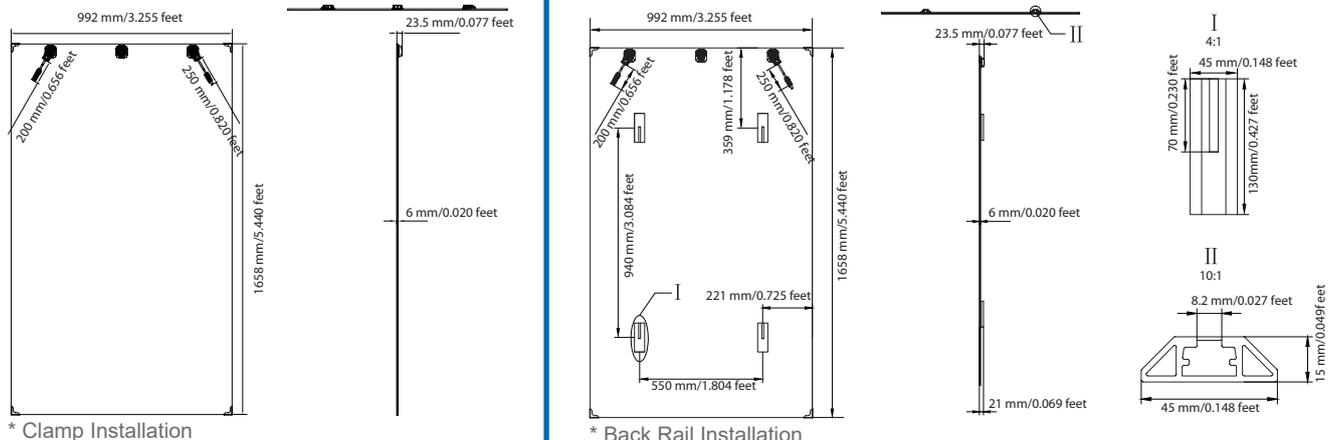
MECHANICAL SPECIFICATIONS

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

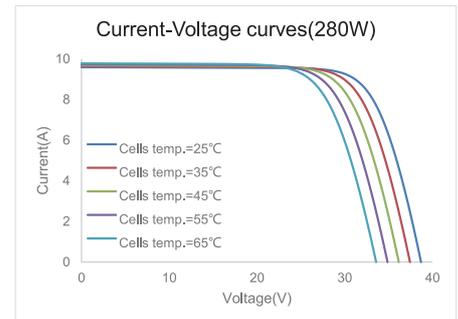
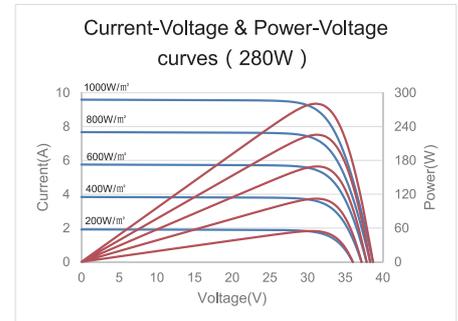
② Refer to Astronergy Crystalline Silicon PV Module Installation Manual or contact technical department.
Maximum Mechanical Test Load=1.5*Maximum Mechanical Design Load.

MODULE DIMENSION DETAILS



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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