

For Global Market



# STAR™ II 275W~300W

5BB-Monocrystalline PV Module

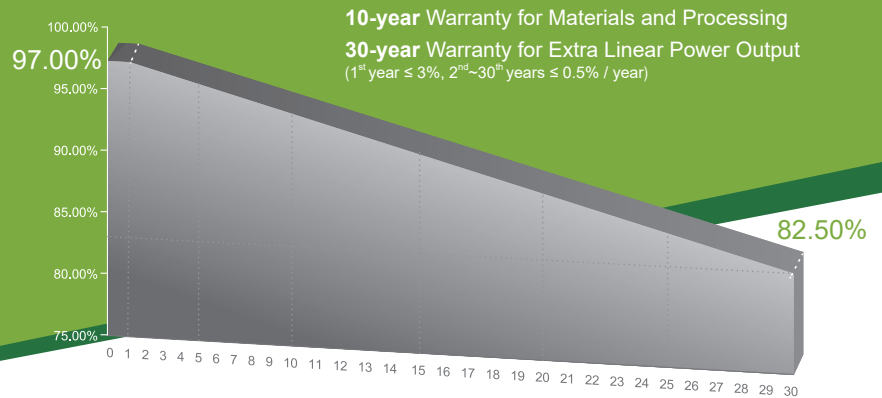
CHSM6610M(DG) Series (Frameless)

CHSM6610M(DGT) Series (Frameless)

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

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

<b>Tier 1</b> Bloomberg	<b>No.1</b> PHOTON	<b>MunichRe</b> Insured	<b>DNV GL</b> 2017 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**  
Alternative transparent or white encapsulant.
- SNAIL TRAIL RESISTANCE**  
Reduces the probability of snail trails with zero water vapor transmittance.
- STRONGER STRUCTURE**  
Better cell micro-crack resistance.

## ELECTRICAL SPECIFICATIONS

STC rated output ( $P_{mpp}$ )*	275 Wp	280 Wp	285 Wp	290 Wp	295 Wp	300 Wp
Rated voltage ( $V_{mpp}$ ) at STC	31.32 V	31.66 V	31.95 V	32.22 V	32.45 V	32.50 V
Rated current ( $I_{mpp}$ ) at STC	8.78 A	8.85 A	8.92 A	9.00 A	9.09 A	9.23 A
Open circuit voltage ( $V_{oc}$ ) at STC	38.66 V	39.05 V	39.39 V	39.59 V	39.84 V	39.82 V
Short circuit current ( $I_{sc}$ ) at STC	9.30 A	9.33 A	9.39 A	9.49 A	9.55 A	9.70 A
Module efficiency	16.7%	17.0%	17.3%	17.6%	17.9%	18.2%
Rated output ( $P_{mpp}$ ) at NOCT	202.1 Wp	205.8 Wp	209.4 Wp	213.1 Wp	216.8 Wp	220.5 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	28.84 V	29.16 V	29.43 V	29.68 V	29.89 V	29.94 V
Rated current ( $I_{mpp}$ ) at NOCT	7.01 A	7.06 A	7.12 A	7.18 A	7.25 A	7.36 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	35.87 V	36.22 V	36.54 V	36.72 V	36.96 V	36.94 V
Short circuit current ( $I_{sc}$ ) at NOCT	7.48 A	7.50 A	7.55 A	7.63 A	7.68 A	7.80 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 <sub>DC</sub> / 1000V <sub>DC</sub>				
Number of diodes		3				
Junction box IP rating		IP 67				
Maximum series fuse rating		15 A				

\* Measurement tolerance +/- 3%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

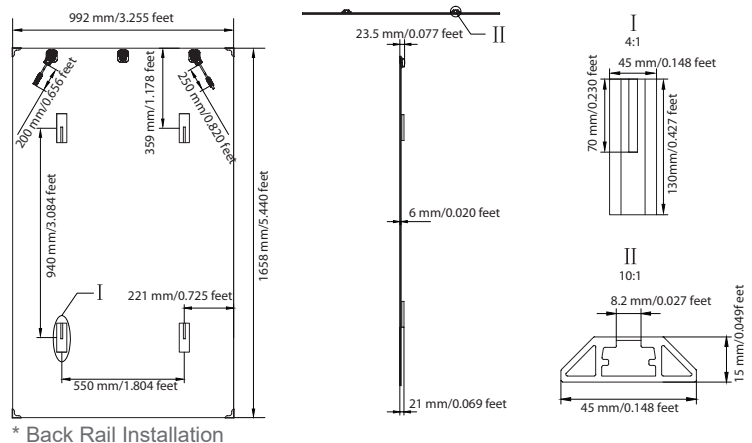
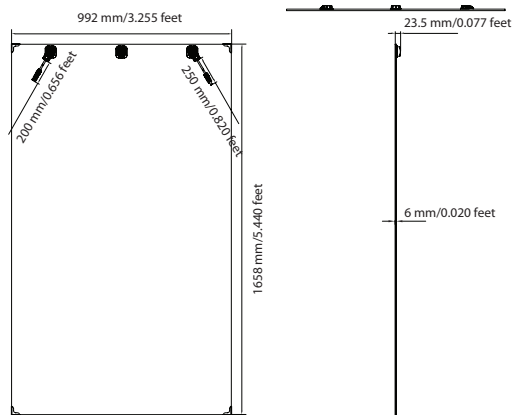
## MECHANICAL SPECIFICATIONS

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 <sup>2</sup> / 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

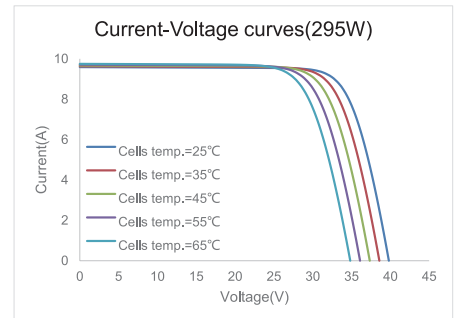
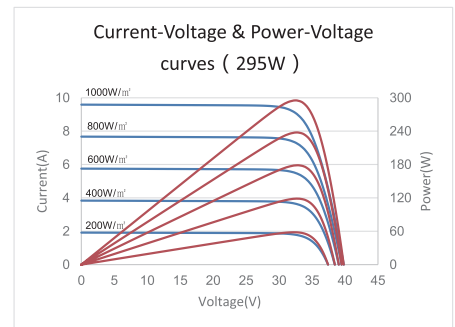
① Positive:250mm,negative:200mm

② Refer to Astronergy crystalline installation manual or contact technical department.  
Maximum Mechanical Test Load=1.5\*Maximum Mechanical Design Load.

## MODULE DIMENSION DETAILS



## 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

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