

For Global Market



STARTM II

Crystalline PV Module

CHSM6610M Series

CHSM6610M/HV Series



- ▶ With innovational 5-busbar cells
- ▶ Unique PERC technology with optimized module process

CHSM6610M max system voltage 1000V standard, CHSM6610M/HV max system voltage 1500V standard

290 295 300 305

EN

ELECTRICAL SPECIFICATIONS

	290 Wp	295 Wp	300 Wp	305 Wp	
STC rated output (P_{mpp})*	290 Wp	295 Wp	300 Wp	305 Wp	
PTC rated output (P_{mpp})**	266.8 Wp	271.5 Wp	276.2 Wp	280.9 Wp	
Standard sorted output	0/+5 Wp				
Warranted power output STC ($P_{nominal}$)	290 Wp	295 Wp	300 Wp	305 Wp	
Rated voltage (V_{mpp}) at STC	32.15 V	32.38 V	32.59 V	32.80 V	
Rated current (I_{mpp}) at STC	9.03 A	9.12 A	9.21 A	9.30 A	
Open circuit voltage (V_{oc}) at STC	39.45 V	39.81 V	39.90 V	40.05 V	
Short circuit current (I_{sc}) at STC	9.54 A	9.59 A	9.68 A	9.72 A	
Module efficiency	17.8%	18.1%	18.4%	18.7%	
Rated output (P_{mpp}) at NOCT	213.1 Wp	216.8 Wp	220.5 Wp	224.1 Wp	
Rated voltage (V_{mpp}) at NOCT	29.58 V	29.79 V	30.00 V	30.21 V	
Rated current (I_{mpp}) at NOCT	7.20 A	7.28 A	7.35 A	7.42 A	
Open circuit voltage (V_{oc}) at NOCT	36.60 V	36.93 V	37.01 V	37.15 V	
Short circuit current (I_{sc}) at NOCT	7.67 A	7.71 A	7.79 A	7.82 A	
Temperature coefficient (P_{mpp})	- 0.380%/K			Maximum system voltage (IEC/UL)	1000V _{DC} / 1000V _{DC} or 1500V _{DC} / 1500V _{DC}
Temperature coefficient (I_{sc})	+0.042%/K			Number of diodes	3
Temperature coefficient (I_{mpp})	- 0.008%/K			Maximum series fuse rating	15 A
Temperature coefficient (V_{mpp})	- 0.373%/K				
Temperature coefficient (V_{oc})	- 0.284%/K				
Normal operating cell temperature (NOCT)	46±2°C				

* Measurement tolerance +/- 3%
** Estimated



RELATED PARAMETERS

Cell type	Monocrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"
Packing unit	31 modules
Weight of packing unit (for container)	616 kg / 1358 lbs

MECHANICAL SPECIFICATIONS

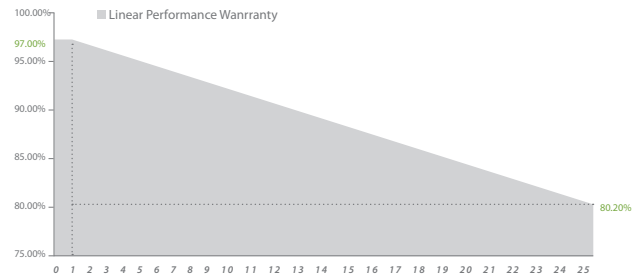
Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.3 kg / 40.34 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 67
① Cable length (UL/IEC)	1000 mm / 39.37 in
Cable diameter (UL/IEC)	12 AWG / 4 mm ²
② Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC4 compatible

① Option: 900(+)/600(-) mm for defined projects in advance.

② Refer to Astronergy crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES

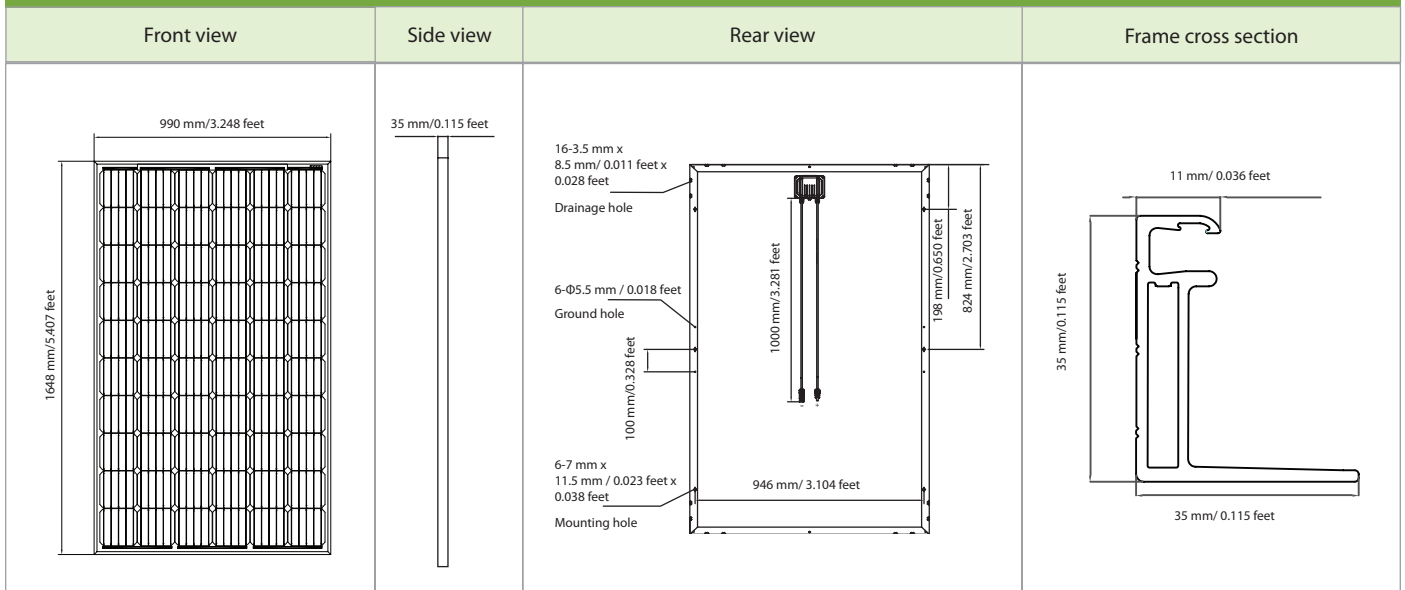
Product standard	IEC 61215, 61730 / UL 1703
Extended product warranty	10 years
Output decline 3%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd - 25 th years



ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(STAR II) CHSM6610M-290	100724	100733
(STAR II) CHSM6610M-295	100725	100734
(STAR II) CHSM6610M-300	100726	100735
(STAR II) CHSM6610M-305	100727	100736
(STAR II) CHSM6610M/HV-290	900146	900155
(STAR II) CHSM6610M/HV-295	900147	900156
(STAR II) CHSM6610M/HV-300	900148	900157
(STAR II) CHSM6610M/HV-305	900149	900158

MODULE DIMENSION DETAILS



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