

Crystalline PV Module

CHSM6610P Series CHSM6610P/HV Series

- ▶ With innovational 5-busbar cells
- ▶ Reducing cell series resistance
- ▶ Increasing cell efficiency
- ▶ More power output

CHSM6610P max system voltage 1000V standard, CHSM6610P/HV max system voltage 1500V standard

255	260	265	270	275
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ELECTRICAL SPECIFICATIONS

	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
STC rated output (P _{mpp})*	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
PTC rated output (P _{mpp})**	235.5 Wp	240.3 Wp	245.0 Wp	249.7 Wp	254.4 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC (P _{nominal})	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Rated voltage (V _{mpp}) at STC	30.66 V	30.88 V	30.92 V	31.08 V	31.12 V
Rated current (I _{mpp}) at STC	8.33 A	8.43 A	8.58 A	8.70 A	8.85 A
Open circuit voltage (V _{oc}) at STC	37.48 V	37.72 V	37.87 V	38.00 V	38.45 V
Short circuit current (I _{sc}) at STC	8.85 A	8.95 A	9.18 A	9.45 A	9.52 A
Module efficiency	15.6%	15.9%	16.2%	16.5%	16.9%
Rated output (P _{mpp}) at NOCT	191.3 Wp	195.0 Wp	198.8 Wp	202.5 Wp	206.3 Wp
Rated voltage (V _{mpp}) at NOCT	27.73 V	27.94 V	27.98 V	28.12 V	28.15 V
Rated current (I _{mpp}) at NOCT	6.90 A	6.98 A	7.10 A	7.20 A	7.33 A
Open circuit voltage (V _{oc}) at NOCT	34.24 V	34.46 V	34.60 V	34.71 V	35.13 V
Short circuit current (I _{sc}) at NOCT	7.45 A	7.54 A	7.73 A	7.96 A	8.02 A
Temperature coefficient (P _{mpp})	- 0.407%/K				1000V _{oc} / 1000V _{oc} or 1500V _{oc} / 1500V _{oc}
Temperature coefficient (I _{sc})	+0.049%/K				Number of diodes
Temperature coefficient (I _{mpp})	- 0.000%/K				3
Temperature coefficient (V _{mpp})	- 0.408%/K				Maximum series fuse rating
Temperature coefficient (V _{oc})	- 0.310%/K				15 A
Normal operating cell temperature (NOCT)	43±2°C				

* Measurement tolerance +/- 3%

** Estimated



RELATED PARAMETERS

Cell type	Polycrystalline
Number of cells / cell arrangement	60 / 6 x10
Cells dimension	6"
Packing unit	28 modules
Weight of packing unit (for container)	557 kg / 1228 lbs

MECHANICAL SPECIFICATIONS

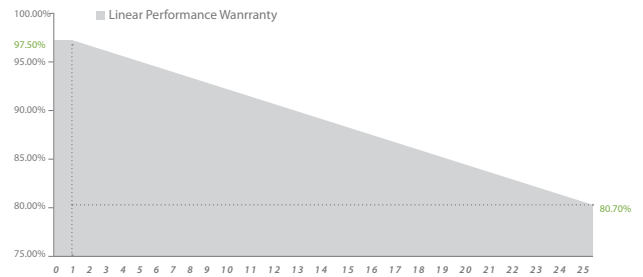
Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.3 kg / 40.34 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 67
^① Cable length(UL/IEC)	1000 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

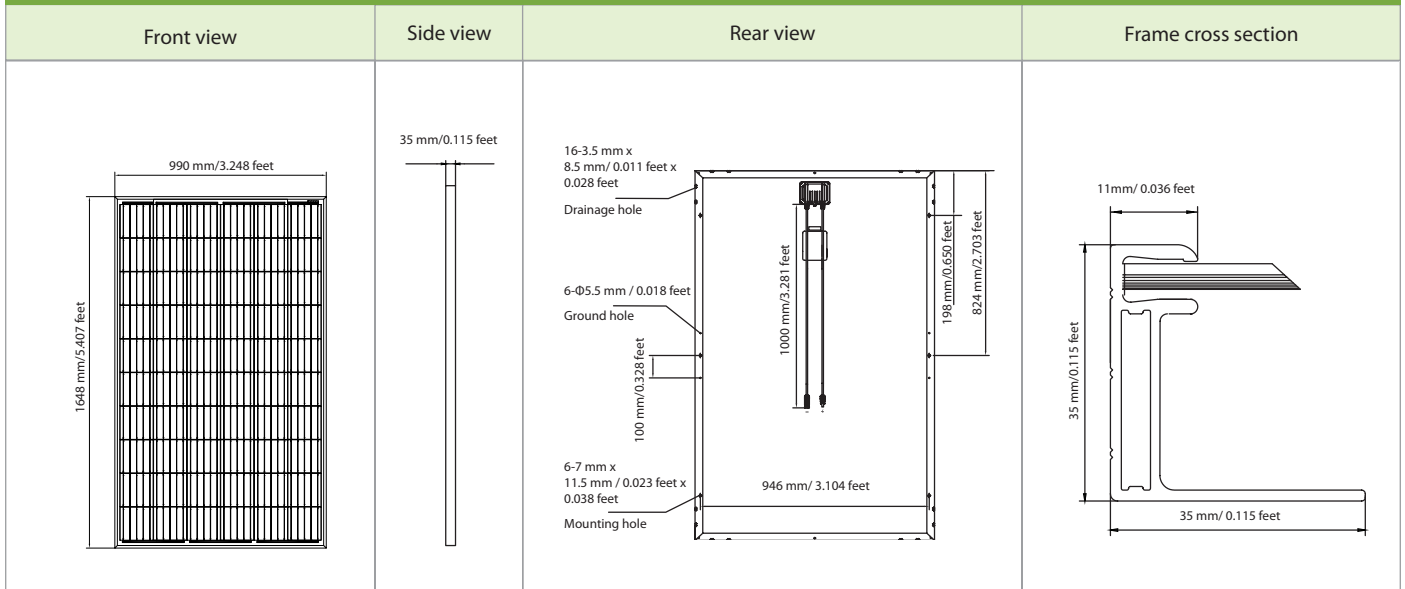
Product standard	IEC61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd - 25 th years



ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
CHSM6610P-255	200751	200760
CHSM6610P-260	200752	200761
CHSM6610P-265	200753	200762
CHSM6610P-270	200754	200763
CHSM6610P-275	200755	200764
CHSM6610P/HV-255	500126	500135
CHSM6610P/HV-260	500127	500136
CHSM6610P/HV-265	500128	500137
CHSM6610P/HV-270	500129	500138
CHSM6610P/HV-275	500130	500139

MODULE DIMENSION DETAILS



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