

VIOLIN™

Crystalline PV Module

Baseline CHSM6610P Series Baseline CHSM6610P/HV Series

- ▶ With innovational 4-busbar cells
- ▶ Reducing cell series resistance
- ▶ Increasing cell efficiency
- ▶ More power output

CHSM6610P is 1000V standard, CHSM6610P/HV is 1500V standard.

250 255 260 265 270

EN

ELECTRICAL SPECIFICATIONS						
STC rated output (P _{mpp})*	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	
PTC rated output (P _{mpp})**	230.8 Wp	235.5 Wp	240.3 Wp	245.0 Wp	249.7 Wp	
Standard sorted output	0/+5 Wp					
Warranted power output STC (P _{nominal})	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	
Rated voltage (V _{mpp}) at STC	30.30 V	30.68 V	31.05 V	31.43 V	31.78 V	
Rated current (I _{mpp}) at STC	8.27 A	8.33 A	8.39 A	8.46 A	8.52 A	
Open circuit voltage (V _{oc}) at STC	38.19 V	38.40 V	38.53 V	38.72 V	38.91 V	
Short circuit current (I _{sc}) at STC	8.65 A	8.69 A	8.72 A	8.75 A	8.79 A	
Module efficiency	15.3%	15.6%	15.9%	16.2%	16.5%	
Rated output (P _{mpp}) at NOCT	187.5 Wp	191.3 Wp	195.0 Wp	198.8 Wp	202.5 Wp	
Rated voltage (V _{mpp}) at NOCT	27.37 V	27.73 V	28.08 V	28.38 V	28.71 V	
Rated current (I _{mpp}) at NOCT	6.85 A	6.90 A	6.95 A	7.00 A	7.05 A	
Open circuit voltage (V _{oc}) at NOCT	34.89 V	35.08 V	35.20 V	35.37 V	35.55 V	
Short circuit current (I _{sc}) at NOCT	7.28 A	7.32 A	7.34 A	7.37 A	7.40 A	
Temperature coefficient (P _{mpp})	- 0.407%/K				Maximum system voltage (IEC/UL)	1000/1500V _{dc}
Temperature coefficient (I _{sc})	+0.049%/K				Number of diodes	6 (or 3)
Temperature coefficient (I _{mpp})	- 0.000%/K				Maximum series fuse rating	15 A
Temperature coefficient (V _{mpp})	- 0.408%/K					
Temperature coefficient (V _{oc})	- 0.310%/K					
Normal operating cell temperature (NOCT)	43±2°C					

* Measurement tolerance +/- 3%

** Estimated



RELATED PARAMETERS

Cell type	polycrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"
Packing unit	28 modules
Weight of packing unit	562 kg / 1236 lbs

MECHANICAL SPECIFICATIONS

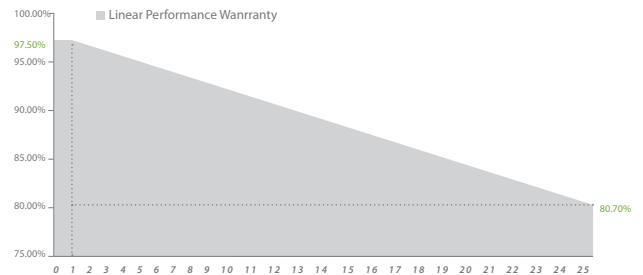
Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.3 kg / 40.34 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
^① Cable length(UL/IEC)	900(+)/600(-)mm / 35.43/23.62 in
Cable diameter (UL/IEC)	12 AWG / 4 mm ²
^② Maximum load capacity	2400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC4 compatible

^① Option: 1000 mm for defined projects in advance.

^② Only limit to portrait direction specified in Astronergy crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES

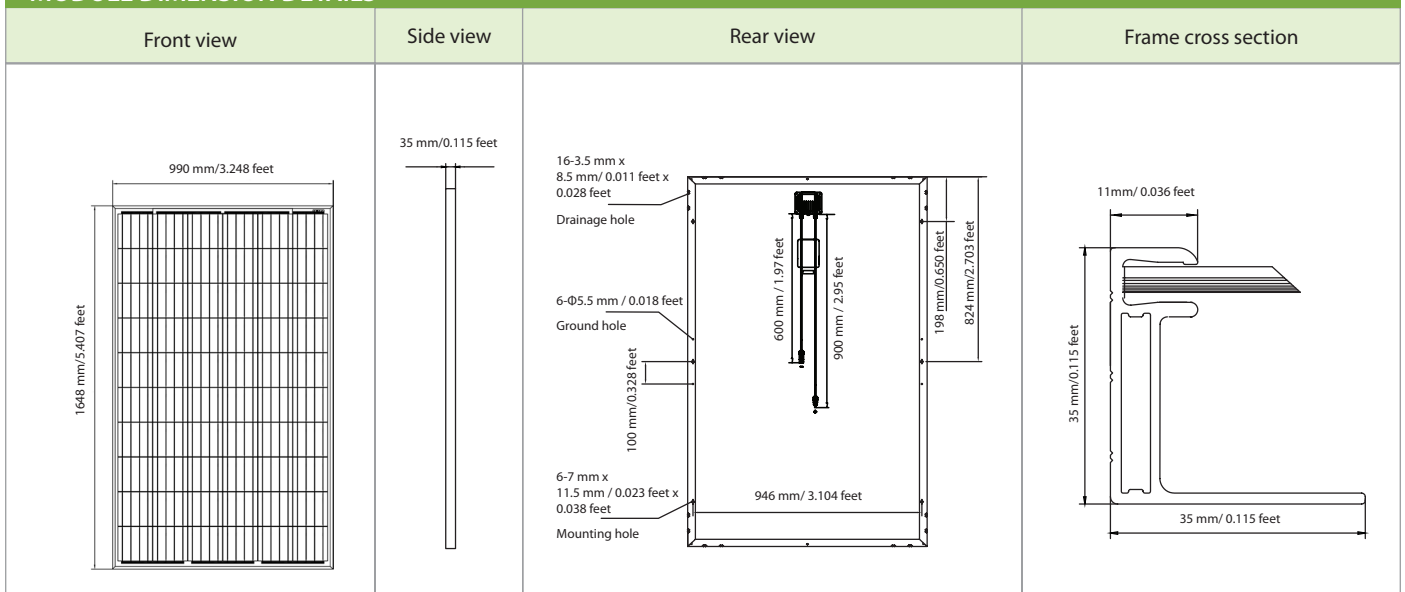
Product standard	IEC61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd - 25 th years



ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(VIOLIN) CHSM6610P-250	200488	200493
(VIOLIN) CHSM6610P-255	200489	200494
(VIOLIN) CHSM6610P-260	200490	200495
(VIOLIN) CHSM6610P-265	200491	200496
(VIOLIN) CHSM6610P-270	200492	200497
(VIOLIN) CHSM6610P/HV-250	500010	500015
(VIOLIN) CHSM6610P/HV-255	500011	500016
(VIOLIN) CHSM6610P/HV-260	500012	500017
(VIOLIN) CHSM6610P/HV-265	500013	500018
(VIOLIN) CHSM6610P/HV-270	500014	500019

MODULE DIMENSION DETAILS



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