

VIOLIN™

Crystalline PV Module Baseline CHSM6610P Series

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

250 255 260 265 270

EN

ELECTRICAL SPECIFICATIONS

	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp
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				
Temperature coefficient (I_{sc})	+0.049%/K				
Temperature coefficient (I_{mpp})	- 0.000%/K				
Temperature coefficient (V_{mpp})	- 0.408%/K				
Temperature coefficient (V_{oc})	- 0.310%/K				
Normal operating cell temperature (NOCT)	43±2°C				
Maximum system voltage (IEC/UL)	1000V _{DC} ***				
Number of diodes	6 (or 3)				
Maximum series fuse rating	15 A				

*** Option: 1500VDC for special requirement in advance

* 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	553 kg / 1219 lbs

MECHANICAL SPECIFICATIONS

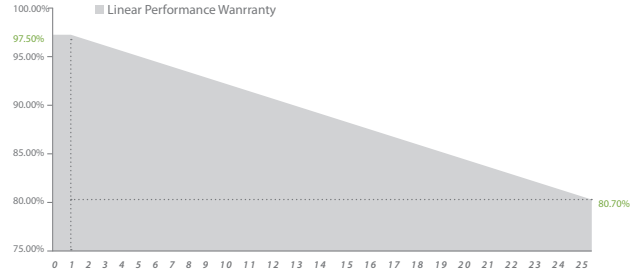
Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.0 kg / 39.68 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
① Cable length (UL/IEC)	1000 mm / 39.37 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)	MC type 4 compatible

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

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

QUALIFICATION AND LINEAR WARRANTIES

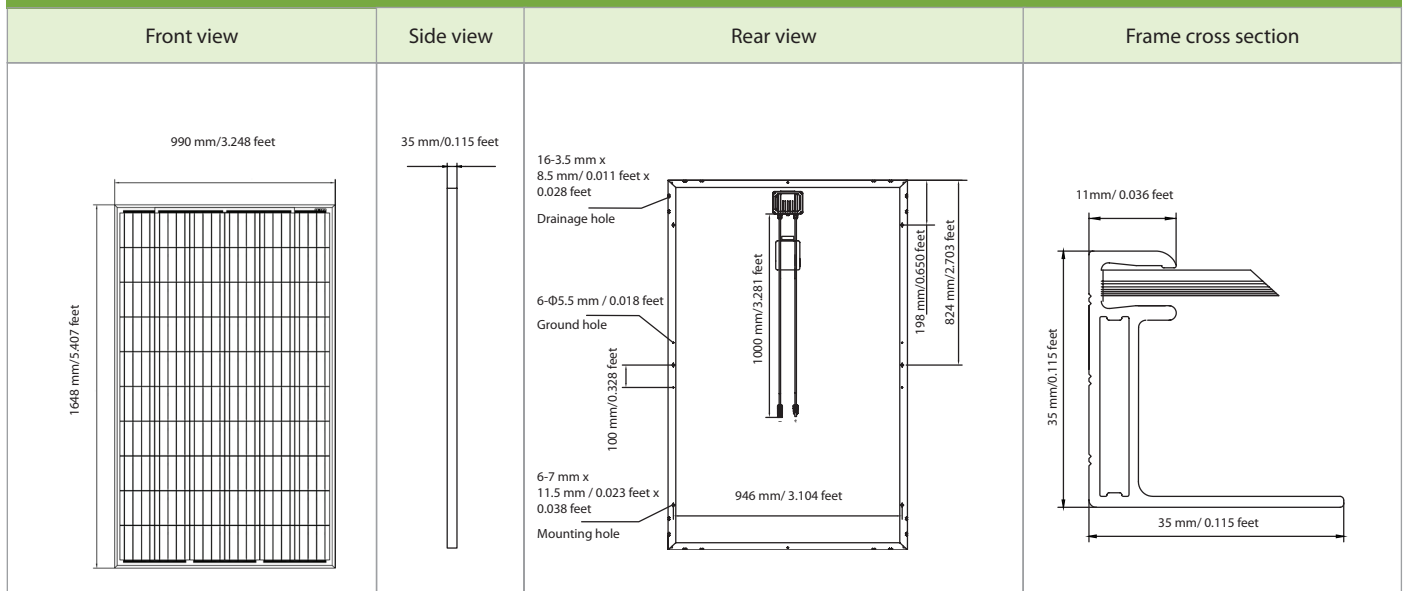
Product standard	IEC61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd - 25 th years



ARTICLE NUMBER (per panel)-VIOLIN Baseline CHSM6610P Series

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

MODULE DIMENSION DETAILS



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