For Global Market





VIOLIN™ II

Crystalline PV Module
CHSM6610P (DG) Series

- Double glass structure to increase strength
- PID free and snail trail free
- 30-year linear performance warranty & 12-year product warranty
- Applicable for the extremely stringent environment

260 | 265 | 270 | 275 | 280

EN

ELECTRICAL SPECIFICATIONS					
STC rated output (P_{mpp})*	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
PTC rated output (P_{mpp})**	240.2 Wp	244.9 Wp	249.7 Wp	254.4 Wp	259.1 Wp
Standard sorted output			0/+5 Wp		
Warranted power output STC ($P_{nominal}$)	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
Rated voltage (V_{mpp}) at STC	31.05 V	31.43 V	31.78 V	32.09 V	32.44 V
Rated current (I_{mpp}) at STC	8.39 A	8.46 A	8.52 A	8.57 A	8.63 A
Open circuit voltage (V_{oc}) at STC	38.53 V	38.72 V	38.91 V	39.13 V	39.32 V
Short circuit current (I_{sc}) at STC	8.72 A	8.75 A	8.79 A	8.96 A	9.06 A
Module efficiency	15.8%	16.1%	16.4%	16.7%	17.0%
Rated output (P_{mpp}) at NOCT	195.0 Wp	198.8 Wp	202.5 Wp	206.3 Wp	210.0 Wp
Rated voltage (V_{mpp}) at NOCT	28.08 V	28.38 V	28.71 V	29.07 V	29.40 V
Rated current (I_{mpp}) at NOCT	6.95 A	7.00 A	7.05 A	7.09 A	7.14 A
Open circuit voltage (V_{oc}) at NOCT	35.20 V	35.37 V	35.55 V	35.75 V	35.92 V
Short circuit current (I_{sc}) at NOCT	7.34 A	7.37 A	7.40 A	7.54 A	7.63 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)	1000 V_{DC}***
Number of diodes	3
Maximum series fuse rating	15 A

*** Option: 1500V_{DC} for special requirement in advance

* Measurement tolerance +/- 3%
** Estimated

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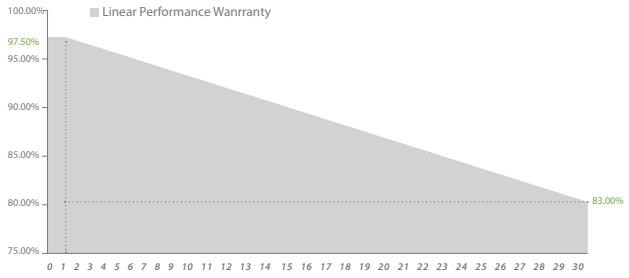
ASTRONERGY

RELATED PARAMETERS

Cell type	polycrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6″
Packing unit	23 modules
Weight of packing unit	598 kg / 1318 lbs

QUALIFICATION AND LINEAR WARRANTIES

Product standard	IEC 61215, 61730 / UL 1703
Extended product warranty	12 years
Output decline 2.5%/year performance P_{mpp} (STC)	1st year
Output decline 0.5%/year performance P_{mpp} (STC)	2nd~ 30th years



MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1658 x 992 x 23.5 mm 65.27 x 39.06 x 0.93 in
Module composition	Glass / PO(transparent or white) / Glass
Weight (module only)	26 kg / 57.32 lbs
Front glass thickness	2.5 mm / 0.098 in
Junction box IP rating	IP 67
① Cable length /diameter (UL/IEC)	200 mm / 7.87 in +250 mm / 9.84 in
Cable diameter (UL/IEC)	12 AWG / 4 mm^2
②Maximum load capacity	3600 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC type 4 compatible

① Positive: 250mm, negative: 200mm

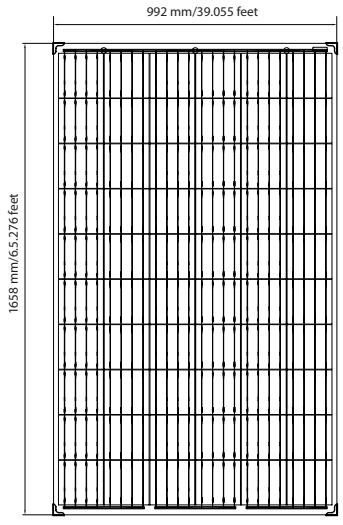
② Only limit to the specified clamp fixing in Astronergy crystalline installation manual

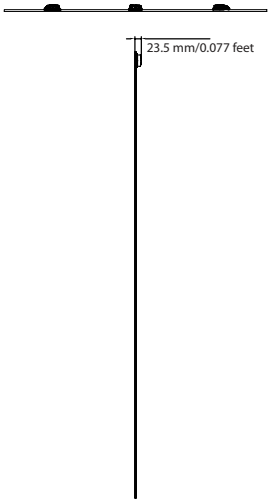
ARTICLE NUMBER (per panel)-VIOLIN II CHSM6610P(DG) Series

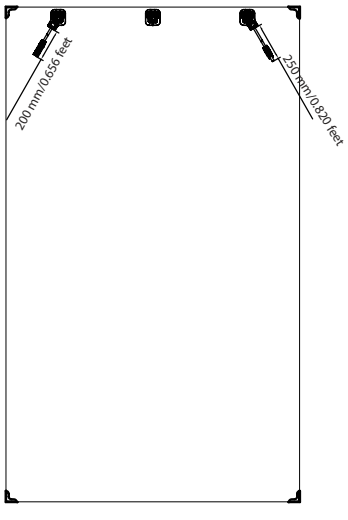
Model	Article No. (IEC)	Article No. (UL)
(VIOLIN II) CHSM6610P(DG)-260	200444	200449
(VIOLIN II) CHSM6610P (DG)-265	200445	200450
(VIOLIN II) CHSM6610P (DG)-270	200462	200465
(VIOLIN II) CHSM6610P (DG)-275	200463	200466
(VIOLIN II) CHSM6610P (DG)-280	200464	200467

MODULE DIMENSION DETAILS

Front view	Side view	Rear view







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