

For Global Market



VIOLINTM

Crystalline PV Module

Baseline CHSM6612P Series

Baseline CHSM6612P/HV Series

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

CHSM6612P max system voltage 1000V standard, CHSM6612P/HV max system voltage 1500V standard

310 315 320 325 330

EN

ELECTRICAL SPECIFICATIONS

	310 Wp	315 Wp	320 Wp	325 Wp	330 Wp
STC rated output (P _{mpp})*	310 Wp	315 Wp	320 Wp	325 Wp	330 Wp
PTC rated output (P _{mpp} **)	282.5 Wp	287.2 Wp	291.9 Wp	296.6 Wp	301.3 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC (P _{nominal})	310 Wp	315 Wp	320 Wp	325 Wp	330 Wp
Rated voltage (V _{mpp}) at STC	36.91 V	36.99 V	37.02 V	37.11 V	37.15 V
Rated current (I _{mpp}) at STC	8.40 A	8.53 A	8.65 A	8.77 A	8.89 A
Open circuit voltage (V _{oc}) at STC	45.15 V	45.30 V	45.45 V	45.67 V	45.86 V
Short circuit current (I _{sc}) at STC	8.92 A	9.04 A	9.25 A	9.48 A	9.52 A
Module efficiency	16.0%	16.3%	16.5%	16.8%	17.1%
Rated output (P _{mpp}) at NOCT	216.5 Wp	220.0 Wp	223.5 Wp	226.9 Wp	230.4 Wp
Rated voltage (V _{mpp}) at NOCT	33.71 V	33.74 V	33.80 V	33.86 V	33.92 V
Rated current (I _{mpp}) at NOCT	6.42 A	6.52 A	6.61 A	6.70 A	6.79 A
Open circuit voltage (V _{oc}) at NOCT	41.43 V	41.57 V	41.70 V	41.91 V	42.08 V
Short circuit current (I _{sc}) at NOCT	6.90 A	6.99 A	7.15 A	7.33 A	7.37 A
Temperature coefficient (P _{mpp})	- 0.408%/K				
Temperature coefficient (I _{sc})	+0.050%/K				
Temperature coefficient (I _{mpp})	- 0.003%/K				
Temperature coefficient (V _{mpp})	- 0.406%/K				
Temperature coefficient (V _{oc})	- 0.311%/K				
Normal operating cell temperature (NOCT)	46±2°C				
Maximum system voltage (IEC/UL)	1000V _{DC} / 1000V _{DC} or 1500V _{DC} / 1500V _{DC}				
Number of diodes	6 (or 3)				
Maximum series fuse rating	15 A				

* Measurement tolerance +/- 3%

** Estimated



RELATED PARAMETERS

Cell type	Polycrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	6"
Packing unit	25 modules
Weight of packing unit (for container)	598 kg / 1318 lbs

MECHANICAL SPECIFICATIONS

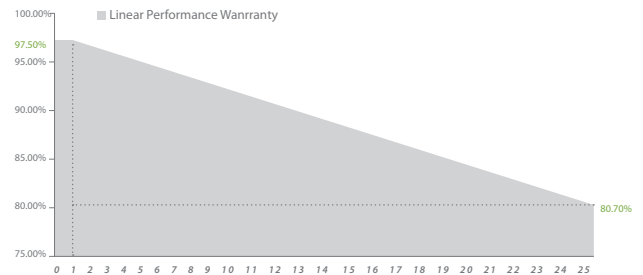
Outer dimensions (L x W x H)	1954 x 990 x 40 mm 76.93 x 38.98 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	21.8 kg / 48.1 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
① Cable length (UL/IEC)	900(+)/600(-)mm / 35.43/23.62 in
Cable diameter (UL/IEC)	12 AWG / 4 mm ²
② Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC4 compatible

① Option: 1000mm or 1150mm for defined projects in advance.

② Refer to Astronergy crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES

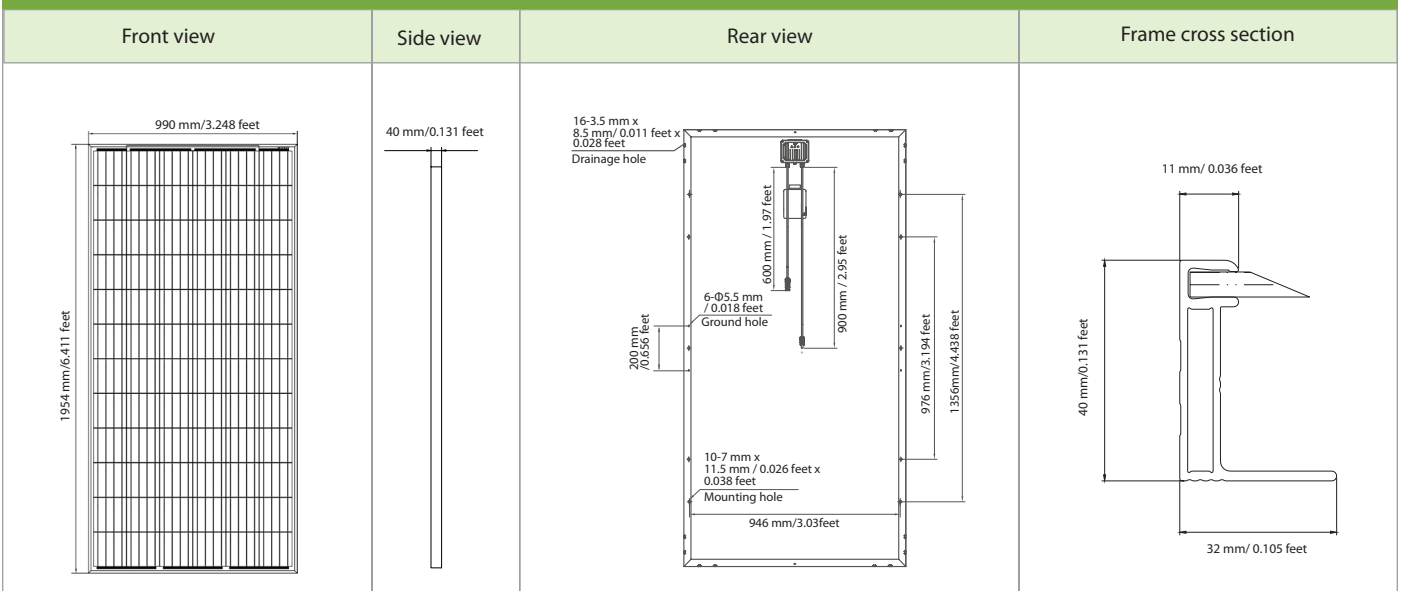
Product standard	IEC 61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P _{mp} (STC)	1 st year
Output decline 0.7%/year performance P _{mp} (STC)	2 nd - 25 th years



ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(VIOLIN) CHSM6612P-310	200590	200596
(VIOLIN) CHSM6612P-315	200591	200597
(VIOLIN) CHSM6612P-320	200592	200598
(VIOLIN) CHSM6612P-325	200593	200599
(VIOLIN) CHSM6612P-330	200594	200600
(VIOLIN) CHSM6612P/HV-310	500071	500077
(VIOLIN) CHSM6612P/HV-315	500072	500078
(VIOLIN) CHSM6612P/HV-320	500073	500079
(VIOLIN) CHSM6612P/HV-325	500074	500080
(VIOLIN) CHSM6612P/HV-330	500075	500081

MODULE DIMENSION DETAILS



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