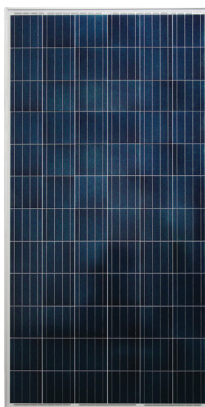


For Global Market



# VIOLIN<sup>TM</sup>

## Crystalline PV Module

### CHSM6612P Series

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



305    310    315    320    325

EN

#### ELECTRICAL SPECIFICATIONS

	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp	
STC rated output (P <sub>mpp</sub> )*	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp	
PTC rated output (P <sub>mpp</sub> )**	277.9 Wp	282.5 Wp	287.2 Wp	291.9 Wp	296.6 Wp	
Standard sorted output	0/+5 Wp					
Warranted power output STC (P <sub>nominal</sub> )	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp	
Rated voltage (V <sub>mpp</sub> ) at STC	35.77 V	35.80 V	35.83 V	35.86 V	36.31 V	
Rated current (I <sub>mpp</sub> ) at STC	8.53 A	8.68 A	8.80 A	8.92 A	8.95 A	
Open circuit voltage (V <sub>oc</sub> ) at STC	45.29 V	45.42 V	45.55 V	45.68 V	45.82 V	
Short circuit current (I <sub>sc</sub> ) at STC	8.95 A	8.99 A	9.02 A	9.06 A	9.10 A	
Module efficiency	15.8%	16.0%	16.3%	16.5%	16.8%	
Rated output (P <sub>mpp</sub> ) at NOCT	213.0 Wp	216.5 Wp	220.0 Wp	223.5 Wp	226.9 Wp	
Rated voltage (V <sub>mpp</sub> ) at NOCT	32.67 V	32.70 V	32.71 V	32.72 V	33.18 V	
Rated current (I <sub>mpp</sub> ) at NOCT	6.52 A	6.62 A	6.73 A	6.83 A	6.84 A	
Open circuit voltage (V <sub>oc</sub> ) at NOCT	41.56 V	41.68 V	41.80 V	41.92 V	42.04 V	
Short circuit current (I <sub>sc</sub> ) at NOCT	6.92 A	6.95 A	6.98 A	7.01 A	7.04 A	
Temperature coefficient (P <sub>mpp</sub> )	- 0.408%/K				Maximum system voltage (UL/IEC)	1000 V <sub>DC</sub> ***
Temperature coefficient (I <sub>sc</sub> )	+0.050%/K				Number of diodes	6 (or 3)
Temperature coefficient (I <sub>mpp</sub> )	- 0.003%/K				Maximum series fuse rating	15 A
Temperature coefficient (V <sub>mpp</sub> )	- 0.406%/K				*** Option: 1500VDC for special requirement in advance	
Temperature coefficient (V <sub>oc</sub> )	- 0.311%/K					
Normal operating cell temperature (NOCT)	46±2°C					

\* Measurement tolerance    +/- 3%

\*\* Estimated



A CHINT COMPANY



ASTRONERGY

## 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	703 kg / 1550 lbs

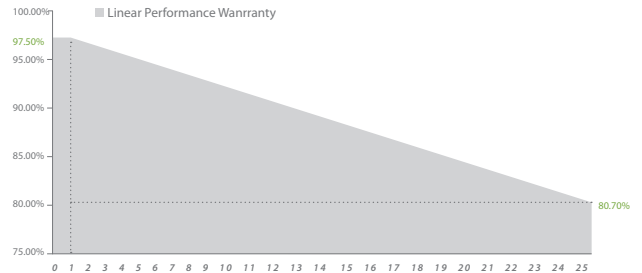
## MECHANICAL SPECIFICATIONS

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)	25.8 kg / 56.9 lbs
Front glass thickness	4.0 mm / 0.16 in
Junction box IP rating	IP 65 (above)
*Cable length (UL/IEC)	1150 mm / 45.28 in
Cable diameter (UL/IEC)	12 AWG / 4 mm <sup>2</sup>
Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC type 4 compatible

\* Option: 1000 mm for defined projects in advance.

## QUALIFICATION AND LINEAR WARRANTIES

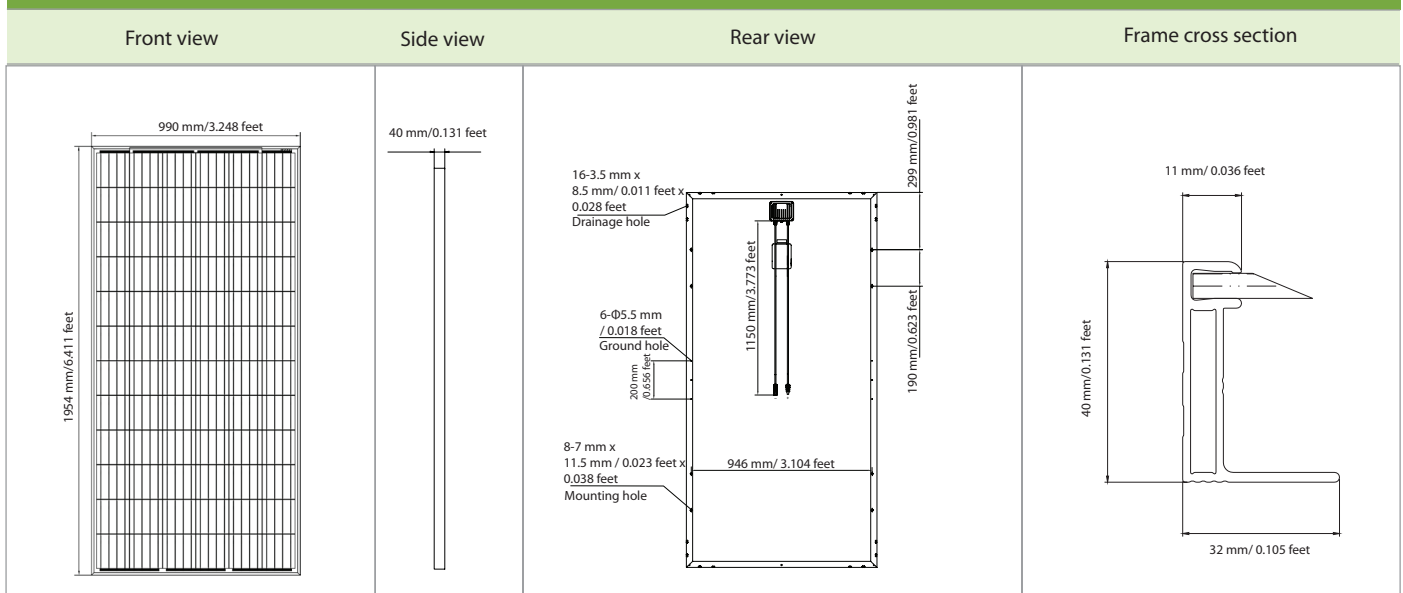
Product standard	IEC 61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P <sub>mpp</sub> (STC)	1 <sup>st</sup> year
Output decline 0.7%/year performance P <sub>mpp</sub> (STC)	2 <sup>nd</sup> - 25 <sup>th</sup> years



## ARTICLE NUMBER (per panel)-VIOLIN CHSM6612P Series

Model	Article No. (IEC)	Article No. (IEC)
(VIOLIN) CHSM6612P-305	200452	200454
(VIOLIN) CHSM6612P-310	200413	200455
(VIOLIN) CHSM6612P-315	200414	200456
(VIOLIN) CHSM6612P-320	200415	200457
(VIOLIN) CHSM6612P-325	200460	200458

## MODULE DIMENSION DETAILS



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