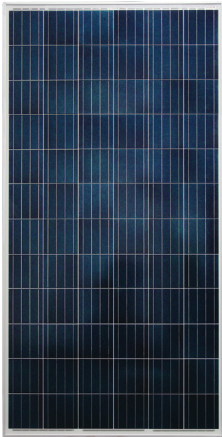


For Global Market



# VIOLIN<sup>TM</sup> II

## Crystalline PV Module

### CHSM6612P Series CHSM6612P/HV Series

- ▶ With innovational 4-busbar cells
- ▶ Unique PERC technology with optimized module process

CHSM6612P is 1000V standard, CHSM6612P/HV is 1500V standard.

315    320    325    330    335

EN

#### ELECTRICAL SPECIFICATIONS

	315 Wp	320 Wp	325 Wp	330 Wp	335 Wp
STC rated output (P <sub>mpp</sub> )*	315 Wp	320 Wp	325 Wp	330 Wp	335 Wp
PTC rated output (P <sub>mpp</sub> )**	287.2 Wp	291.9 Wp	296.6 Wp	301.3 Wp	306.0 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC (P <sub>nominal</sub> )	315 Wp	320 Wp	325 Wp	330 Wp	335 Wp
Rated voltage (V <sub>mpp</sub> ) at STC	35.83 V	35.86 V	36.31 V	36.79 V	37.36 V
Rated current (I <sub>mpp</sub> ) at STC	8.80 A	8.92 A	8.95 A	8.97 A	8.98 A
Open circuit voltage (V <sub>oc</sub> ) at STC	45.55 V	45.68 V	45.82 V	45.95 V	46.08 V
Short circuit current (I <sub>sc</sub> ) at STC	9.02 A	9.06 A	9.10 A	9.13 A	9.16 A
Module efficiency	16.3%	16.5%	16.8%	17.1%	17.3%
Rated output (P <sub>mpp</sub> ) at NOCT	220.0 Wp	223.5 Wp	226.9 Wp	230.4 Wp	233.9 Wp
Rated voltage (V <sub>mpp</sub> ) at NOCT	32.71 V	32.72 V	33.18 V	33.61 V	34.09 V
Rated current (I <sub>mpp</sub> ) at NOCT	6.73 A	6.83 A	6.84 A	6.86 A	6.86 A
Open circuit voltage (V <sub>oc</sub> ) at NOCT	41.80 V	41.92 V	42.04 V	42.16 V	42.28 V
Short circuit current (I <sub>sc</sub> ) at NOCT	6.98 A	7.01 A	7.04 A	7.06 A	7.08 A
Temperature coefficient (P <sub>mpp</sub> )	- 0.408%/K				
Temperature coefficient (I <sub>sc</sub> )	+0.050%/K				
Temperature coefficient (I <sub>mpp</sub> )	- 0.003%/K				
Temperature coefficient (V <sub>mpp</sub> )	- 0.406%/K				
Temperature coefficient (V <sub>oc</sub> )	- 0.311%/K				
Normal operating cell temperature (NOCT)	46±2°C				
Maximum system voltage (IEC/UL)	1000/1500 Vdc				
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	703 kg / 1550 lbs

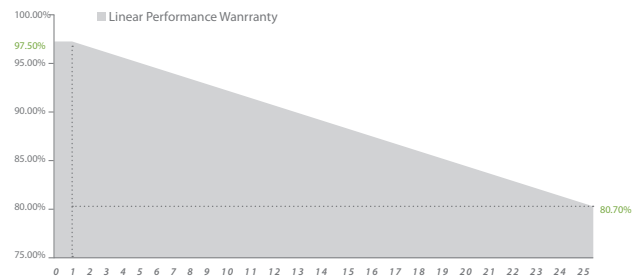
## MECHANICAL SPECIFICATIONS

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)	MC4 compatible

\* Option: 900(+)/600(-) mm or 1000 mm for defined projects in advance.

## QUALIFICATION AND LINEAR WARRANTIES

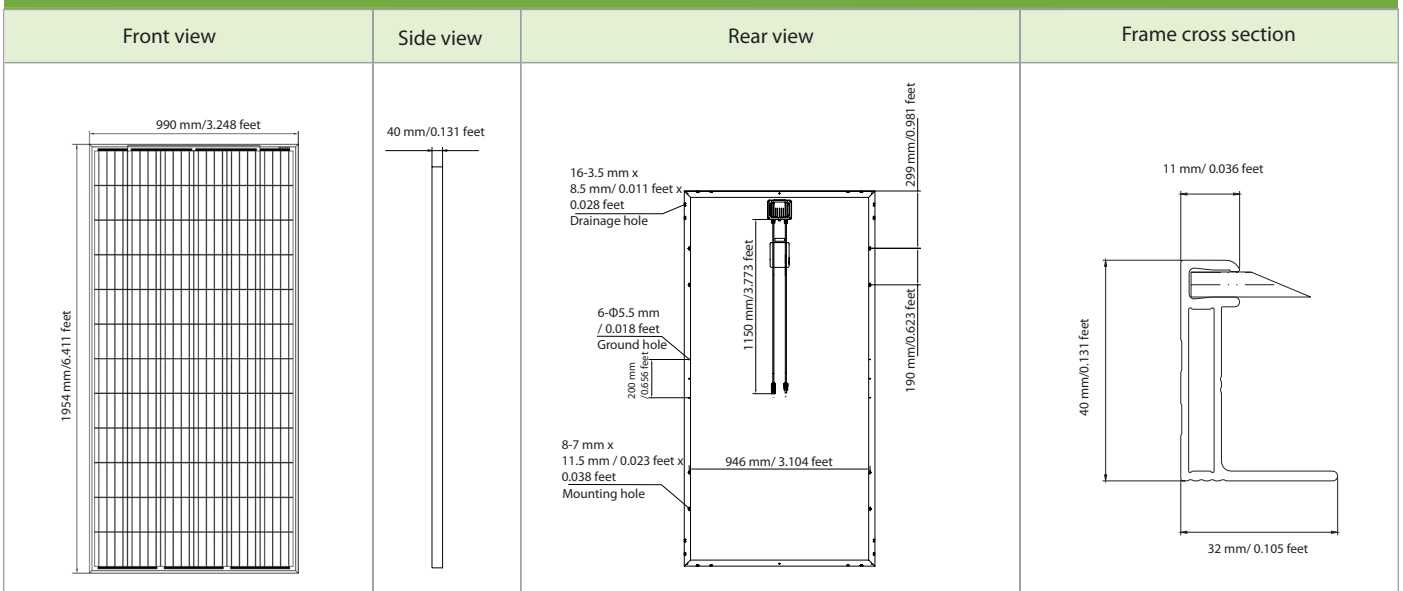
Product standard	IEC 61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P <sub>mpp</sub> (STC)	1 <sup>st</sup> year
Output decline 0.7%/year performance P <sub>mpp</sub> (STC)	2 <sup>nd</sup> - 25 <sup>th</sup> years



## ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(VIOLIN II) CHSM6612P-315	200414	200456
(VIOLIN II) CHSM6612P-320	200415	200457
(VIOLIN II) CHSM6612P-325	200460	200458
(VIOLIN II) CHSM6612P-330	200461	200459
(VIOLIN II) CHSM6612P-335	200552	200553
(VIOLIN II) CHSM6612P/HV-315	500036	500043
(VIOLIN II) CHSM6612P/HV-320	500037	500044
(VIOLIN II) CHSM6612P/HV-325	500038	500045
(VIOLIN II) CHSM6612P/HV-330	500039	500046
(VIOLIN II) CHSM6612P/HV-335	500040	500047

## MODULE DIMENSION DETAILS



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