

# VIOLIN<sup>TM</sup> II

## Crystalline PV Module

### CHSM6610P Series

### CHSM6610P/HV Series

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

CHSM6610P is 1000V standard, CHSM6610P/HV is 1500V standard.

260    265    270    275    280

EN

#### ELECTRICAL SPECIFICATIONS

	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
STC rated output (P <sub>mpp</sub> )*	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
PTC rated output (P <sub>mpp</sub> )**	240.3 Wp	245.0 Wp	249.7 Wp	254.4 Wp	259.2 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC (P <sub>nominal</sub> )	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
Rated voltage (V <sub>mpp</sub> ) at STC	31.05 V	31.43 V	31.78 V	32.09 V	32.44 V
Rated current (I <sub>mpp</sub> ) at STC	8.39 A	8.46 A	8.52 A	8.57 A	8.63 A
Open circuit voltage (V <sub>oc</sub> ) at STC	38.53 V	38.72 V	38.91 V	39.13 V	39.32 V
Short circuit current (I <sub>sc</sub> ) at STC	8.72 A	8.75 A	8.79 A	8.96 A	9.06 A
Module efficiency	15.9%	16.2%	16.5%	16.9%	17.2%
Rated output (P <sub>mpp</sub> ) at NOCT	195.0 Wp	198.8 Wp	202.5 Wp	206.3 Wp	210.0 Wp
Rated voltage (V <sub>mpp</sub> ) at NOCT	28.08 V	28.38 V	28.71 V	29.07 V	29.40 V
Rated current (I <sub>mpp</sub> ) at NOCT	6.95 A	7.00 A	7.05 A	7.09 A	7.14 A
Open circuit voltage (V <sub>oc</sub> ) at NOCT	35.20 V	35.37 V	35.55 V	35.75 V	35.92 V
Short circuit current (I <sub>sc</sub> ) at NOCT	7.34 A	7.37 A	7.40 A	7.54 A	7.63 A
Temperature coefficient (P <sub>mpp</sub> )	- 0.407%/K		Maximum system voltage (IEC)		1000/1500 V <sub>dc</sub>
Temperature coefficient (I <sub>sc</sub> )	+0.049%/K		Number of diodes		6 (or 3)
Temperature coefficient (I <sub>mpp</sub> )	- 0.000%/K		Maximum series fuse rating		15 A
Temperature coefficient (V <sub>mpp</sub> )	- 0.408%/K				
Temperature coefficient (V <sub>oc</sub> )	- 0.310%/K				
Normal operating cell temperature (NOCT)	43±2°C				

\* Measurement tolerance +/- 3%

\*\* Estimated



## RELATED PARAMETERS

Cell type	polycrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"
Packing unit	25 modules
Weight of packing unit	508 kg / 1120 lbs

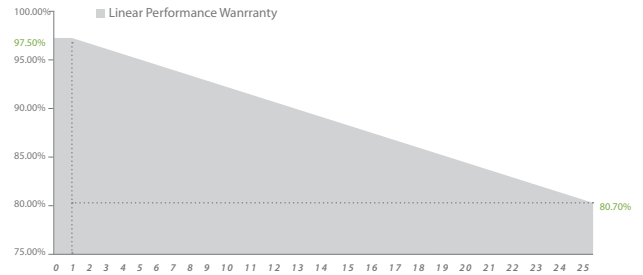
## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1648 x 990 x 40 mm 64.88 x 38.98 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.4 kg / 40.57 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
* Cable length (UL/IEC)	1000 mm / 39.37 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 for defined projects in advance.

## QUALIFICATION AND LINEAR WARRANTIES

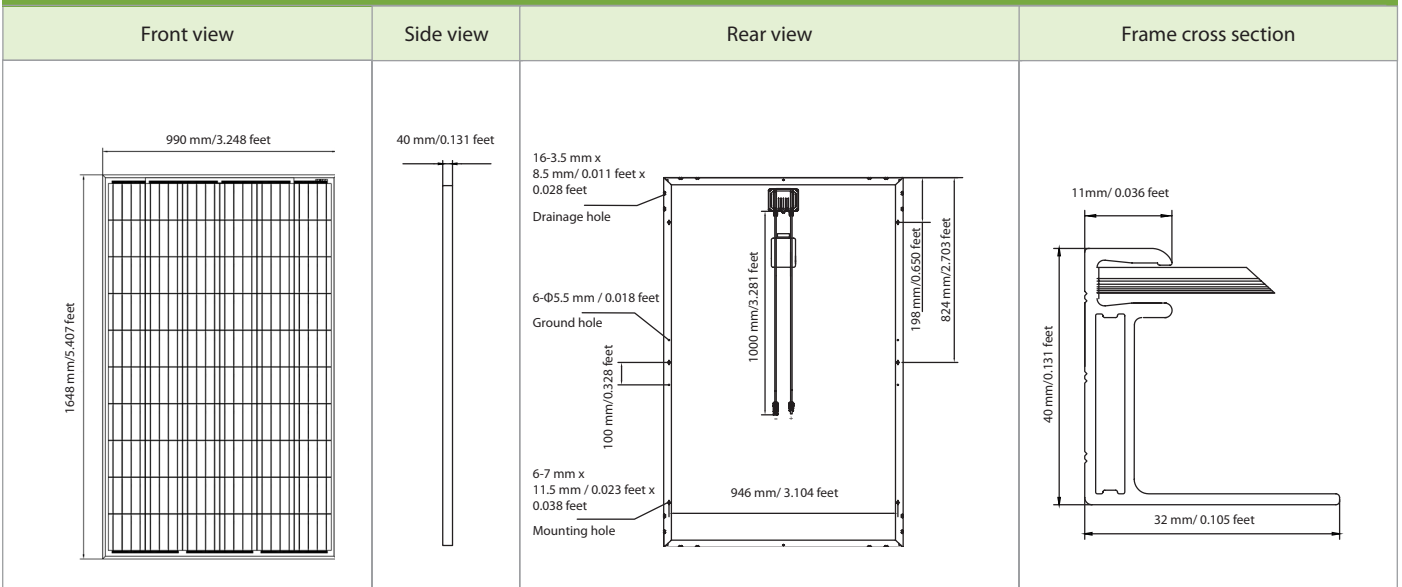
Product standard	IEC 61215, 61730 / UL1703
Extended product warranty	10 years
Output decline 2.5%/year performance P <sub>mpp</sub> (STC)	1 <sup>st</sup> year
Output decline 0.7%/year performance P <sub>mpp</sub> (STC)	2 <sup>nd</sup> - 25 <sup>th</sup> years



## ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(VIOLIN II) CHSM6610P-260	200500	200507
(VIOLIN II) CHSM6610P-265	200501	200508
(VIOLIN II) CHSM6610P-270	200502	200509
(VIOLIN II) CHSM6610P-275	200503	200510
(VIOLIN II) CHSM6610P-280	200504	200511
(VIOLIN II) CHSM6610P/HV-260	500022	500029
(VIOLIN II) CHSM6610P/HV-265	500023	500030
(VIOLIN II) CHSM6610P/HV-270	500024	500031
(VIOLIN II) CHSM6610P/HV-275	500025	500032
(VIOLIN II) CHSM6610P/HV-280	500026	500033

## MODULE DIMENSION DETAILS



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