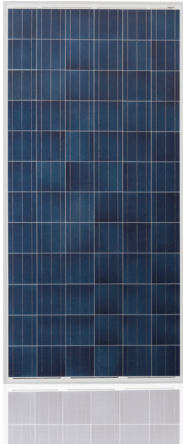


For Global Market



# Datasheet

## Crystalline PV Module

### CHSM6612P Series

EN

300	305	310	315	320
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ELECTRICAL SPECIFICATIONS					
STC rated output ( $P_{mpp}$ )*	300 Wp	305 Wp	310 Wp	315 Wp	320 Wp
PTC rated output ( $P_{mpp}$ )**	273.2 Wp	277.9 Wp	282.5 Wp	287.2 Wp	291.9 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC ( $P_{nominal}$ )	300 Wp	305 Wp	310 Wp	315 Wp	320 Wp
Rated voltage ( $V_{mpp}$ ) at STC	35.74 V	35.77 V	35.80 V	35.83 V	35.86 V
Rated current ( $I_{mpp}$ ) at STC	8.40 A	8.53 A	8.68 A	8.80 A	8.93 A
Open circuit voltage ( $V_{oc}$ ) at STC	45.16 V	45.29 V	45.42 V	45.55 V	45.68 V
Short circuit current ( $I_{sc}$ ) at STC	8.91 A	8.95 A	8.99 A	9.02 A	9.06 A
Module efficiency	15.5%	15.8%	16.0%	16.3%	16.5%
Rated output ( $P_{mpp}$ ) at NOCT	209.5 Wp	213.0 Wp	216.5 Wp	220.0 Wp	223.5 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	32.63 V	32.67 V	32.70 V	32.71 V	32.74 V
Rated current ( $I_{mpp}$ ) at NOCT	6.42 A	6.52 A	6.62 A	6.73 A	6.82 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	41.44 V	41.56 V	41.68 V	41.80 V	41.92 V
Short circuit current ( $I_{sc}$ ) at NOCT	6.89 A	6.92 A	6.95 A	6.98 A	7.01 A
Temperature coefficient ( $P_{mpp}$ )	- 0.408%/K		Maximum system voltage (UL/IEC)		1000 V <sub>DC</sub> ***
Temperature coefficient ( $I_{sc}$ )	+0.050%/K		Number of diodes		6 (or 3)
Temperature coefficient ( $I_{mpp}$ )	- 0.003%/K		Maximum series fuse rating		15 A
Temperature coefficient ( $V_{mpp}$ )	- 0.406%/K				
Temperature coefficient ( $V_{oc}$ )	- 0.311%/K				
Normal operating cell temperature (NOCT)	46±2°C				

\*\*\* Option: 1500VDC for special requirement in advance

\* Measurement tolerance +/- 3%  
 \*\* Estimated



A CHNT COMPANY

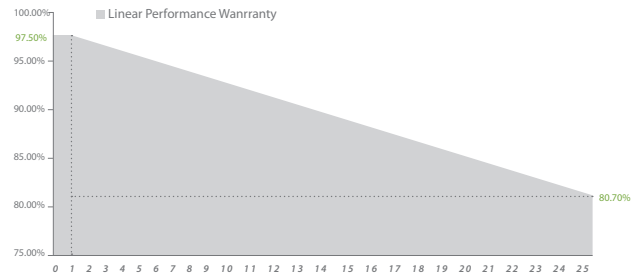
ASTRONERGY

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

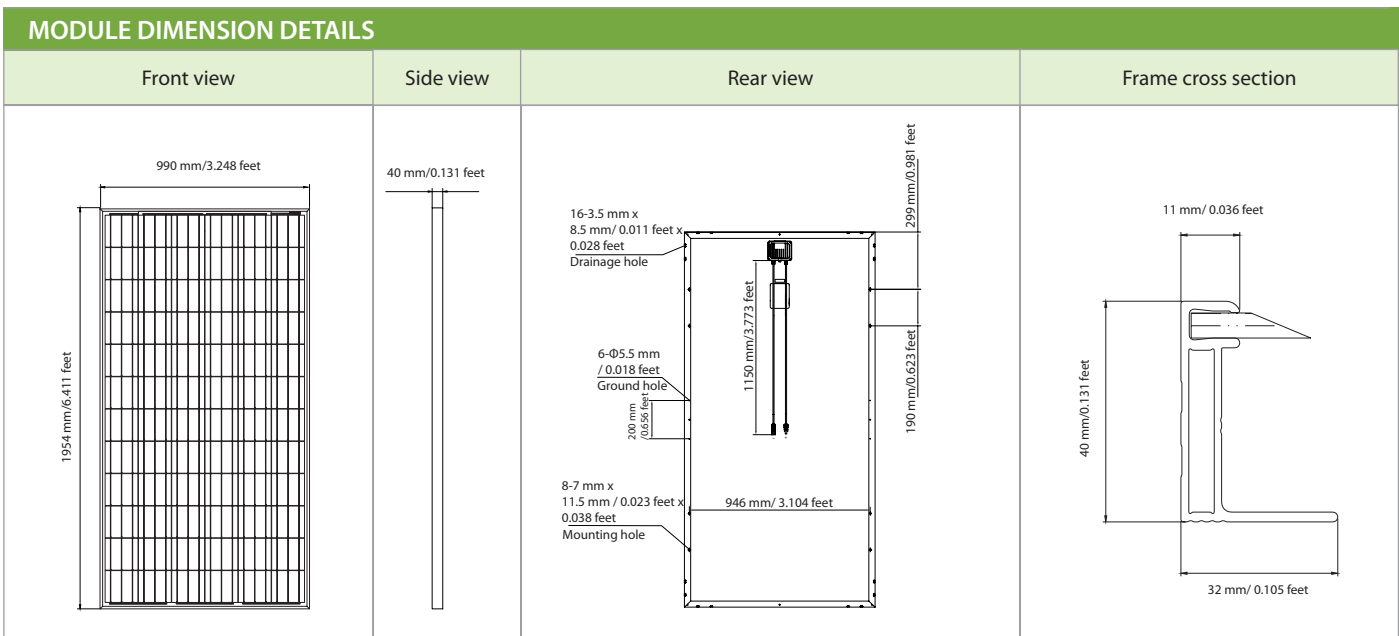
MECHANICAL SPECIFICATIONS	
Outer dimensions (L x W x H)	1954 x 990 x 40 mm 76.93 x 38.98 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	25.8 kg / 56.9 lbs
Front glass thickness	4.0 mm / 0.16 in
Junction box IP rating	IP 65 (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 / UL 1703
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)-CHSM6612P Series		
Model	Article No. (IEC)	Article No. (UL)
CHSM6612P-300	200532	200537
CHSM6612P-305	200533	200538
CHSM6612P-310	200534	200539
CHSM6612P-315	200535	200540
CHSM6612P-320	200536	200541



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