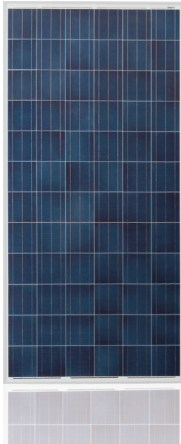


For Global Market



Datasheet

Crystalline PV Module

Baseline 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 _{DC} ***			
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	*** Option: 1500V _{DC} for special requirement in advance			
Temperature coefficient (V_{oc})	- 0.311%/K				
Normal operating cell temperature (NOCT)	46±2°C				

* Measurement tolerance +/- 3%
 ** Estimated



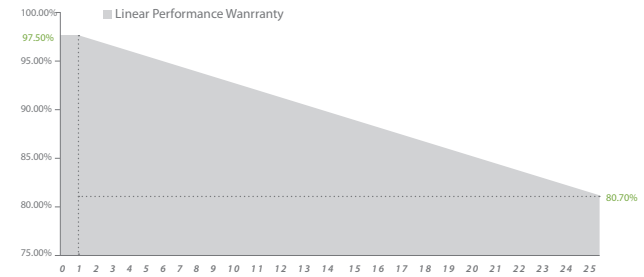
A CHNT COMPANY

ASTRONERGY

RELATED PARAMETERS	
Cell type	polycrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	6"
Packing unit	22 modules
Weight of packing unit	553 kg / 1219 lbs

QUALIFICATION AND LINEAR WARRANTIES	
Product standard	IEC 61215, 61730 / UL 1703
Extended product warranty	10 years
Output decline 2.5%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd - 25 th years

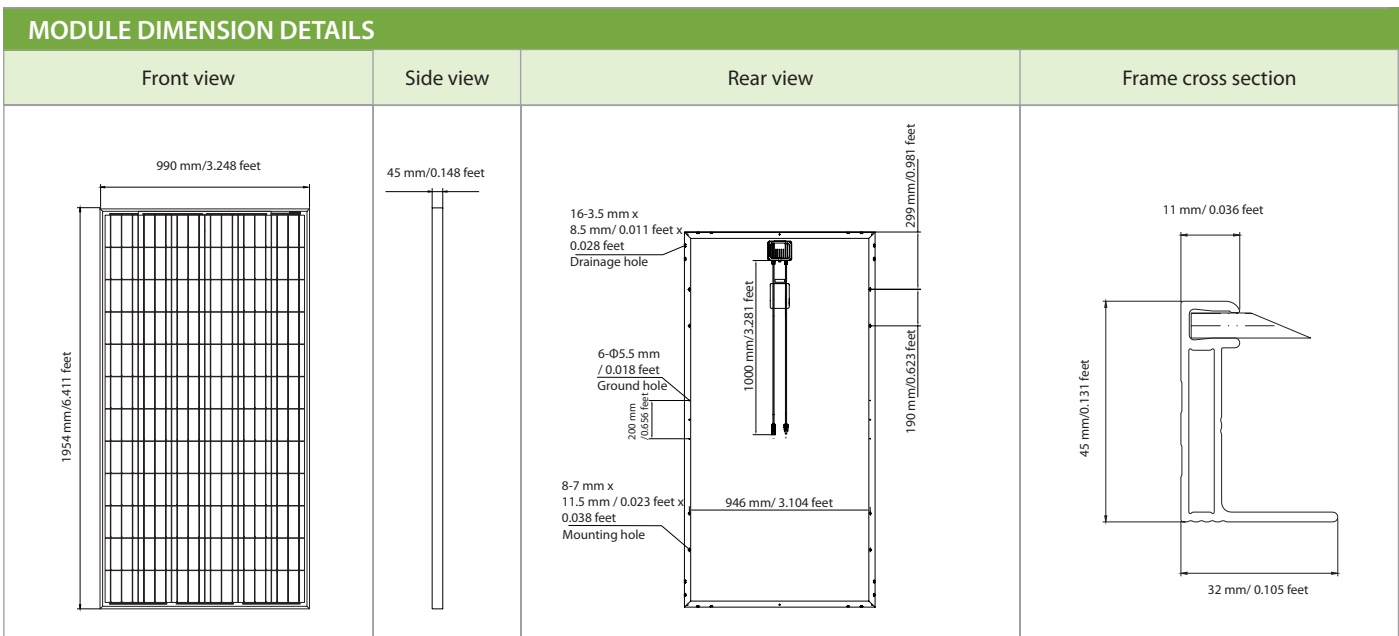
MECHANICAL SPECIFICATIONS	
Outer dimensions (L x W x H)	1954 x 990 x 45 mm 76.93 x 38.98 x 1.77 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	22.5 kg / 49.6 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
^① Cable length (UL/IEC)	1000 mm / 39.37 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)	MC type 4 compatible



ARTICLE NUMBER (per panel)-Baseline CHSM6612P Series		
Model	Article No. (IEC)	Article No. (UL)
CHSM6612P-300	200542	200547
CHSM6612P-305	200543	200548
CHSM6612P-310	200544	200549
CHSM6612P-315	200545	200550
CHSM6612P-320	200546	200551

^① Option: 1150 mm for defined projects in advance.

^② Only limit to portrait direction specified in Astronergy crystalline installation manual.



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