



Datasheet

Crystalline PV Module

NMC CHSM6612P Series

* NMC : Cell made in Non-Mainland China

EN

285	290	295	300	305	310
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ELECTRICAL SPECIFICATIONS						
	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp	310 Wp
STC rated output (P _{mpp})*	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp	310 Wp
PTC rated output (P _{mpp})**	256.5 Wp	261.1 Wp	265.7 Wp	270.3 Wp	275 Wp	279.6 Wp
Standard sorted output	0/+5 Wp					
Warranted power output STC (P _{mpp min})	285 Wp	290 Wp	295 Wp	300 Wp	305 Wp	310 Wp
Rated voltage (V _{mpp}) at STC	35.66 V	35.68 V	35.72 V	35.74 V	35.77 V	35.80 V
Rated current (I _{mpp}) at STC	8.04 A	8.15 A	8.30 A	8.40 A	8.53 A	8.68 A
Open circuit voltage (V _{oc}) at STC	44.77 V	44.90 V	45.03 V	45.16 V	45.29 V	45.42 V
Short circuit current (I _{sc}) at STC	8.80 A	8.84 A	8.87 A	8.91 A	8.95 A	8.99 A
Module efficiency	14.7%	14.9%	15.2%	15.4%	15.7%	15.9%
Rated output (P _{mpp}) at NOCT	199.0 Wp	202.5 Wp	206.0 Wp	209.5 Wp	213.0 Wp	216.5 Wp
Rated voltage (V _{mpp}) at NOCT	32.39 V	32.51 V	32.47 V	32.63 V	32.67 V	32.70 V
Rated current (I _{mpp}) at NOCT	6.14 A	6.23 A	6.34 A	6.42 A	6.52 A	6.62 A
Open circuit voltage (V _{oc}) at NOCT	41.08 V	41.20 V	41.32 V	41.44 V	41.56 V	41.68 V
Short circuit current (I _{sc}) at NOCT	6.80 A	6.83 A	6.86 A	6.89 A	6.92 A	6.95 A
Temperature coefficient (P _{mpp})	- 0.45%/K		Maximum system voltage UL		1000 Vdc	
Temperature coefficient (I _{sc})	+0.087%/K		Number of diodes		6 (or 3)	
Temperature coefficient (I _{mpp})	+0.007%/K		Maximum series fuse rating		15 A	
Temperature coefficient (V _{mpp})	- 0.445%/K					
Temperature coefficient (V _{oc})	- 0.332%/K					
Normal operating cell temperature (NOCT)	46±2°C					

* Measurement tolerance +/- 3%
 ** Estimated



RELATED PARAMETERS

Cell type	polycrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	6"
Packing unit	20 modules
Weight of packing unit	528 kg / 1162 lbs

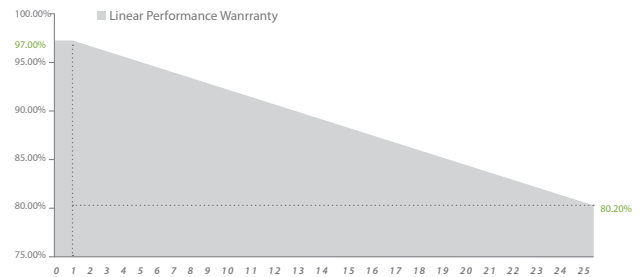
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1956 x 994 x 50 mm 77.01 x 39.13 x 1.97 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	23.5 kg / 51.7 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
*Cable length (UL)	1150 mm / 45.28 in
Cable diameter (UL)	12 AWG
Maximum load capacity	5400 Pa
Fire class	C
Connector type (UL)	MC type 4 compatible

* Option: 1000 mm for defined projects in advance.

QUALIFICATION AND LINEAR WARRANTIES

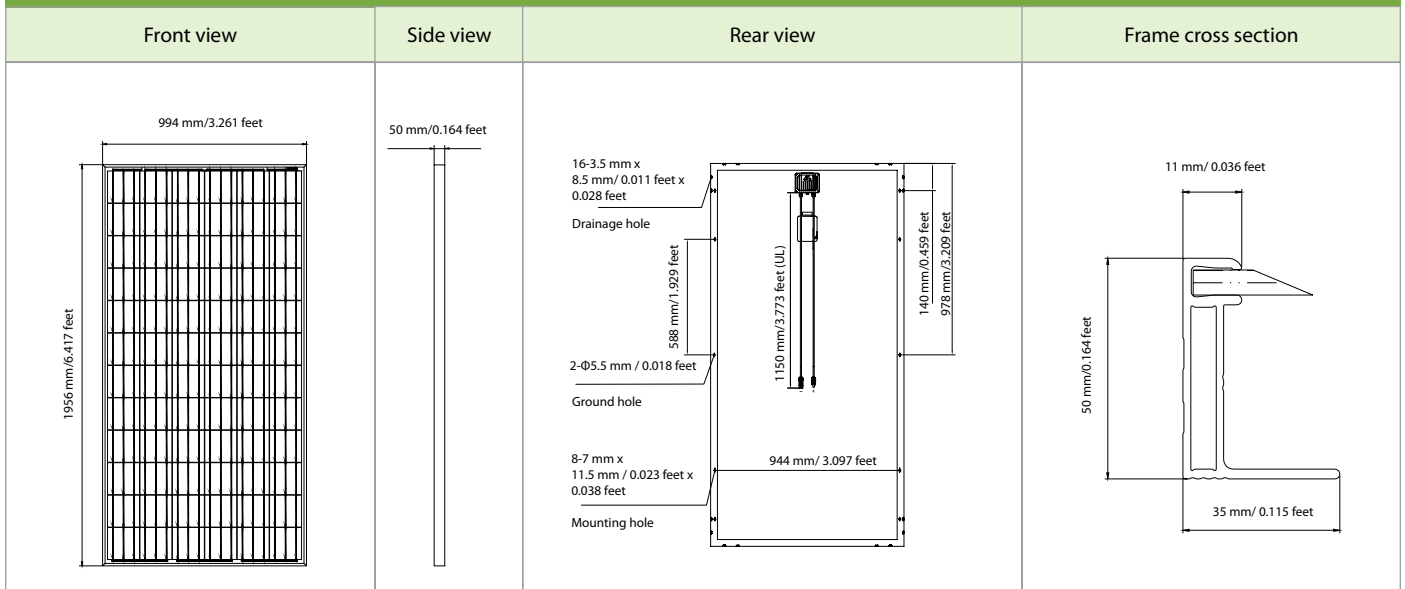
Product standard	UL 1703
Extended product warranty	10 years
Output decline 3%/year performance P_{mpp} (STC)	1 st year
Output decline 0.7%/year performance P_{mpp} (STC)	2 nd - 25 th years



ARTICLE NUMBER (per panel) - (NMC) CHSM6612P Series

Model	Article No. (UL)
(NMC) CHSM6612P-285	200154
(NMC) CHSM6612P-290	200155
(NMC) CHSM6612P-295	200156
(NMC) CHSM6612P-300	200157
(NMC) CHSM6612P-305	200275
(NMC) CHSM6612P-310	200276

MODULE DIMENSION DETAILS



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