

DIAMONDTM

Crystalline PV Module

CHSM6612P Series

CHSM6612P/HV Series

- ▶ Extended 30-year performance warranty & 12-year product warranty
- ▶ Up to PID free 1000h ability (@85°C/85%, -1000V)
- ▶ Achieve to snail trail free with optimized module process
- ▶ Applicable for the extremely stringent environment

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

305 310 315 320 325

EN

ELECTRICAL SPECIFICATIONS

	305	310	315	320	325	
STC rated output (P _{mpp})*	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp	
PTC rated output (P _{mpp})**	277.9 Wp	282.5 Wp	287.2 Wp	291.9 Wp	296.6 Wp	
Standard sorted output	0/+5 Wp					
Warranted power output STC (P _{nominal})	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp	
Rated voltage (V _{mpp}) at STC	35.77 V	35.80 V	35.83 V	35.86 V	36.31 V	
Rated current (I _{mpp}) at STC	8.53 A	8.68 A	8.80 A	8.92 A	8.95 A	
Open circuit voltage (V _{oc}) at STC	45.29 V	45.42 V	45.55 V	45.68 V	45.82 V	
Short circuit current (I _{sc}) at STC	8.95 A	8.99 A	9.02 A	9.06 A	9.10 A	
Module efficiency	15.8%	16.0%	16.3%	16.5%	16.8%	
Rated output (P _{mpp}) at NOCT	213.0 Wp	216.5 Wp	220.0 Wp	223.5 Wp	226.9 Wp	
Rated voltage (V _{mpp}) at NOCT	32.67 V	32.70 V	32.71 V	32.72 V	33.18 V	
Rated current (I _{mpp}) at NOCT	6.52 A	6.62 A	6.73 A	6.83 A	6.84 A	
Open circuit voltage (V _{oc}) at NOCT	41.56 V	41.68 V	41.80 V	41.92 V	42.04 V	
Short circuit current (I _{sc}) at NOCT	6.92 A	6.95 A	6.98 A	7.01 A	7.04 A	
Temperature coefficient (P _{mpp})	- 0.408%/K		Maximum system voltage (IEC)			1000/1500 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					
Temperature coefficient (V _{oc})	- 0.311%/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	25 modules
Weight of packing unit	703 kg / 1550 lbs

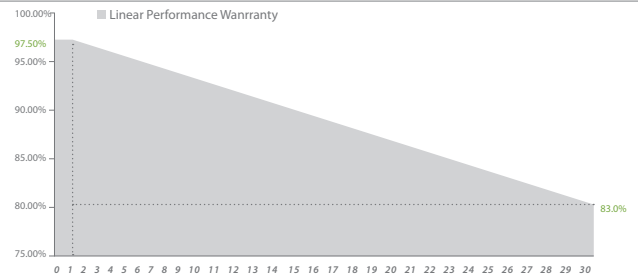
MECHANICAL SPECIFICATIONS

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 / PO / 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 (IEC/UL)	1150 mm / 45.28 in
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (IEC/UL)	MC4 compatible

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

QUALIFICATION AND LINEAR WARRANTIES

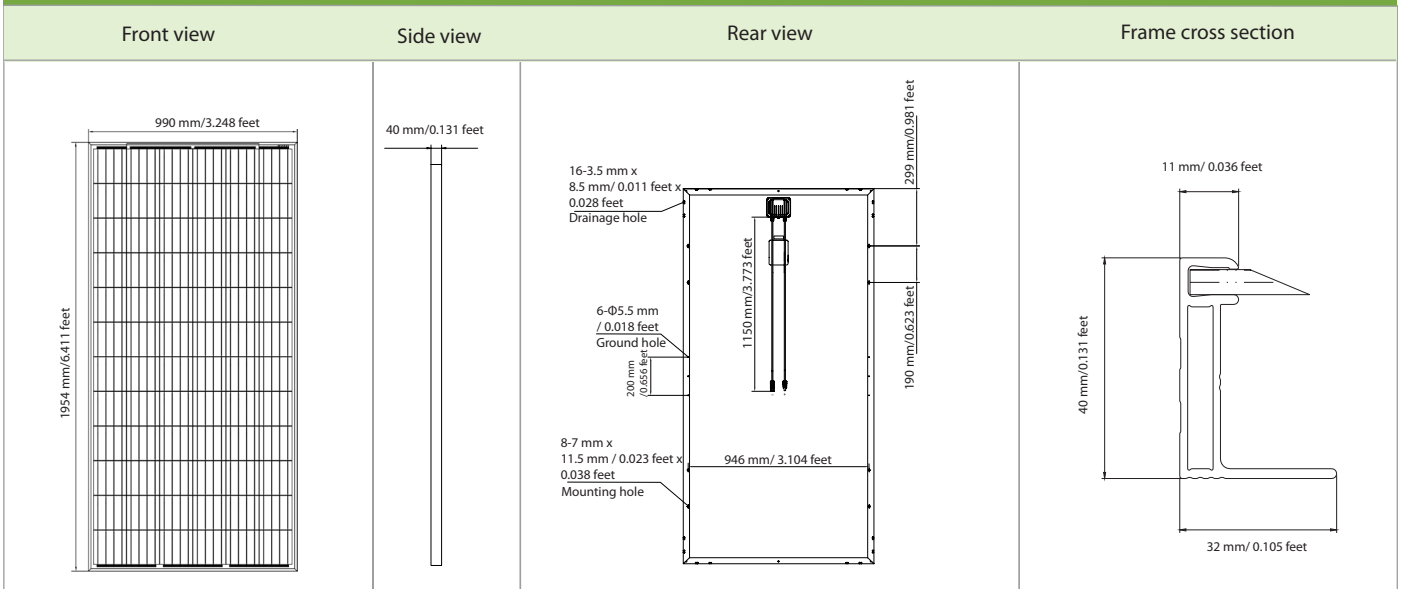
Product standard	IEC 61215, 61730
Extended product warranty	12 years
Output decline 2.5%/year performance P _{mpp} (STC)	1 st year
Output decline 0.5%/year performance P _{mpp} (STC)	2 nd - 30 th years



ARTICLE NUMBER

Model	Article No. (IEC)	Article No. (UL)
(DIAMOND) CHSM6612P-305	200564	200569
(DIAMOND) CHSM6612P-310	200565	200570
(DIAMOND) CHSM6612P-315	200566	200571
(DIAMOND) CHSM6612P-320	200567	200572
(DIAMOND) CHSM6612P-325	200568	200573
(DIAMOND) CHSM6612P/HV-305	500058	500064
(DIAMOND) CHSM6612P/HV-310	500059	500065
(DIAMOND) CHSM6612P/HV-315	500060	500066
(DIAMOND) CHSM6612P/HV-320	500061	500067
(DIAMOND) CHSM6612P/HV-325	500062	500068

MODULE DIMENSION DETAILS



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