

Datasheet Crystalline PV Module CHSM5612M (BL) Series



180	185	190	195	200
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ELECTRICAL SPECIFICATIONS					
STC rated output (P _{mpp})*	180 Wp	185 Wp	190 Wp	195 Wp	200 Wp
PTC rated output (P _{mpp})**	159.7 Wp	164.3 Wp	168.9 Wp	173.5 Wp	178.0 Wp
Standard sorted output			-0/+5 Wp		
Warranted power output STC (Pmpp min)	180 Wp	185 Wp	190 Wp	195 Wp	200 Wp
Rated voltage (V _{mpp}) at STC	36.02 V	36.38 V	36.74 V	37.10 V	37.46 V
Rated current (I _{mpp}) at STC	5.00 A	5.09 A	5.17 A	5.25 A	5.34 A
Open circuit voltage (Voc) at STC	44.88 V	45.12 V	45.37 V	45.62 V	45.87 V
Short circuit current (Isc) at STC	5.31 A	5.39 A	5.47 A	5.55 A	5.63 A
Module efficiency	14.1%	14.5%	14.9%	15.3%	15.7%
Rated output (P _{mpp}) at NOCT	119.7 Wp	123.0 Wp	126.3 Wp	129.6 Wp	133.0 Wp
Rated voltage (V _{mpp}) at NOCT	32.12 V	32.43 V	32.79 V	33.15 V	33.41 V
Rated current (Impp) at NOCT	3.73 V	3.79 A	3.85 A	3.91A	3.98 A
Open circuit voltage (Voc) at NOCT	40.24 A	40.46 V	40.68 V	40.91 V	41.13 V
Short circuit current (Isc) at NOCT	4.03 A	4.09 A	4.15 A	4.22 A	4.28 A
Temperature coefficient (Pmpp)	- 0.480%/K	Maxin	Maximum system voltage SCII 1000 V		1000 VDC
Temperature coefficient (Isc)	+0.062%/K	Maxin	Maximum system voltage NEC		600 VDC
Temperature coefficient (Impp)	- 0.022%/K	Numb	Number of diodes		3 for IEC /6 for UL
Temperature coefficient (V _{mpp})	- 0.462%/K	Maxin	Maximum series fuse rating		10 A
Temperature coefficient (Voc)	- 0.355%/K				
Normal operating cell temperature (NOCT)	48±2°C				

* Measurement tolerance +/- 3%
** Estimated



















QUALIFICATION AND WARRANTIES			
Product standard	IEC 61215, 61730 / UL 1703		
Extended product warranty	10 years		
Output warranty of 90% performance P _{mpp} (S	TC) 10 years		
Output warranty of 80% performance P _{mpp} (S	TC) 25 years		
MunichRe Warranty	25 years		

CELL TECHNOLOGY	
Cell type	monocrystalline
Number of cells / cell arrangement	72/6x12
Cells dimension	5″

MECHANICAL SPECIFICATIONS			
Outer dimensions (L x W x H)	1580 x 808 x 45 mm 62.20 x 31.81 x 1.77 in		
Frame technology	Aluminum, black anodized		
Module composition	Glass / EVA / Backsheet (black)		
Weight (module only)	15.5 kg / 34.1 lbs		
Front glass thickness	3.2 mm / 0.13 in		
Junction box IP rating	IP 65		
Cable length / diameter (UL)	1000 mm / 39.37 in / 12 AWG		
Cable length / diameter (IEC)	1000 mm / 39.37 in / 4 mm ²		
Maximum load capacity	5400 Pa		
Fire class	С		
Connector type (UL)	Multi Contact type 4		
Connector type (TUV)	MC type 4 compatible		

MISCELLANEOUS	
Packing unit	22 modules
Weight of packing unit	390 kg / 858 lbs

ARTICLE NUMBER (per panel)-CHSM5612M (BL)Series				
ArticleNo. (IEC)	ArticleNo. (UL)			
100082	100110			
100083	100111			
100084	100112			
100085	100113			
100236	100235			
	ArticleNo. (IEC) 100082 100083 100084 100085			

XUL: black-white backsheet **XIEC:** black-white backsheet

MODULE DIMENSION DETAILS			
Front view	Side view	Rear view	Frame cross section
808 mm/2.651 feet	45 mm/0.148 feet	16-3.5 mm x 8.5 mm / 0.011 feet x 0.028 feet Drainage hole 4-Ø5.5 mm / 0.018 feet Ground hole 6-7 mm x 11.5 mm / 0.023 feet x 0.038 feet Mounting hole 764 mm/ 2.507 feet	12 mm/ 0.039 feet 42 mm/ 0.105 feet

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