



Datasheet

Crystalline PV Module

CHSM5612M (BL) Series

185 190 195 200 205

EN

ELECTRICAL SPECIFICATIONS

	185 Wp	190 Wp	195 Wp	200 Wp	205 Wp
STC rated output (P_{mpp})*	185 Wp	190 Wp	195 Wp	200 Wp	205 Wp
PTC rated output (P_{mpp} **)	164.3 Wp	168.9 Wp	173.5 Wp	178.0 Wp	181.6 Wp
Standard sorted output	-0/+5 Wp				
Warranted power output STC ($P_{mpp, min}$)	185 Wp	190 Wp	195 Wp	200 Wp	205 Wp
Rated voltage (V_{mpp}) at STC	36.38 V	36.74 V	37.10 V	37.46 V	37.83 V
Rated current (I_{mpp}) at STC	5.09 A	5.17 A	5.25 A	5.34 A	5.42 A
Open circuit voltage (V_{oc}) at STC	45.12 V	45.37 V	45.62 V	45.87 V	46.11 V
Short circuit current (I_{sc}) at STC	5.39 A	5.47 A	5.55 A	5.63 A	5.71 A
Module efficiency	14.5%	14.9%	15.3%	15.7%	16.1%
Rated output (P_{mpp}) at NOCT	123.0 Wp	126.3 Wp	129.6 Wp	133.0 Wp	136.3 Wp
Rated voltage (V_{mpp}) at NOCT	32.43 V	32.79 V	33.15 V	33.41 V	33.76 V
Rated current (I_{mpp}) at NOCT	3.79 A	3.85 A	3.91 A	3.98 A	4.04 A
Open circuit voltage (V_{co}) at NOCT	40.46 V	40.68 V	40.91 V	41.13 V	41.35 V
Short circuit current (I_{cc}) at NOCT	4.09 A	4.15 A	4.22 A	4.28 A	4.34 A
Temperature coefficient (P_{mpp})	- 0.480%/K				
Temperature coefficient (I_{sc})	+ 0.062%/K				
Temperature coefficient (I_{mpp})	- 0.022%/K				
Temperature coefficient (V_{mpp})	- 0.462%/K				
Temperature coefficient (V_{oc})	- 0.355%/K				
Normal operating cell temperature (NOCT)	48±2°C				
Maximum system voltage SCII	1000 V _{DC}				
Maximum system voltage NEC	600 V _{DC} / 1000 V _{DC}				
Number of diodes	3 for IEC /6 for UL				
Maximum series fuse rating	10 A				

* 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} (STC)	10 years
Output warranty of 80% performance P_{mpp} (STC)	25 years
MunichRe Warranty	25 years

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1580 x 808 x 35 mm 62.20 x 31.81 x 1.38 in
Frame technology	Aluminum, black anodized
Module composition	Glass / EVA / Backsheet (black)
Weight (module only)	15.0 kg / 33.0 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	C
Connector type (UL)	Multi Contact type 4 / MC type 4 compatible
Connector type (TUV)	MC type 4 compatible

CELL TECHNOLOGY

Cell type	monocrystalline
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	5"

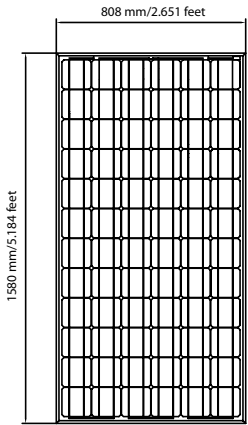
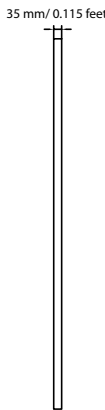
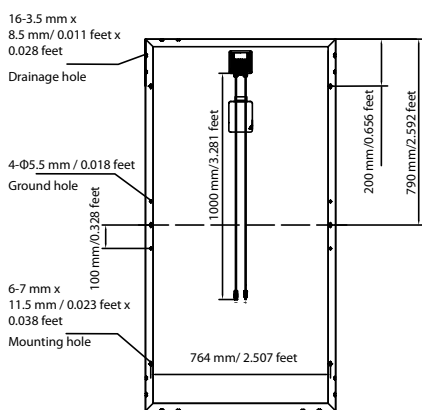
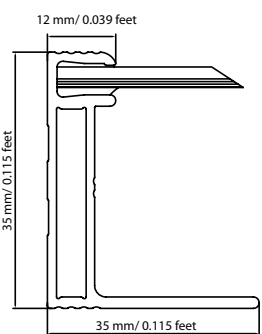
MISCELLANEOUS

Packing unit	28 modules
Weight of packing unit	460 kg / 1020 lbs

ARTICLE NUMBER (per panel)-CHSM5612M (BL) Series

Model	Article No. (IEC)	Article No. (UL)
CHSM5612M(BL)-185	100327	100159
CHSM5612M(BL)-190	100328	100160
CHSM5612M(BL)-195	100329	100161
CHSM5612M(BL)-200	100330	100239
CHSM5612M(BL)-205	100353	100354

MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section
			

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