



Datasheet

Crystalline PV Module

CHSM6610P (BL) Series

EN

230	235	240	245	250	255
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ELECTRICAL SPECIFICATIONS

	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp	255 Wp
STC rated output (P _{mpp})*	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp	255 Wp
PTC rated output (P _{mpp})**	209.2 Wp	213.9 Wp	218.5 Wp	223.2 Wp	227.9 Wp	232.5 Wp
Standard sorted output	-0/+5 Wp					
Warranted power output STC (P _{mpp min})	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp	255 Wp
Rated voltage (V _{mpp}) at STC	28.78 V	29.16 V	29.54 V	29.92 V	30.30 V	30.68 V
Rated current (I _{mpp}) at STC	7.99 A	8.06 A	8.13 A	8.20 A	8.27 A	8.33 A
Open circuit voltage (V _{oc}) at STC	37.35 V	37.56 V	37.77 V	37.98 V	38.19 V	38.40 V
Short circuit current (I _{sc}) at STC	8.53 A	8.56 A	8.59 A	8.62 A	8.65 A	8.69 A
Module efficiency	14.0%	14.3%	14.6%	14.9%	15.2%	15.5%
Rated output (P _{mpp}) at NOCT	172.5 Wp	176.3 Wp	180.0 Wp	183.8 Wp	187.5 Wp	191.25 Wp
Rated voltage (V _{mpp}) at NOCT	26.08 V	26.42 V	26.75 V	27.06 V	27.37 V	27.73 V
Rated current (I _{mpp}) at NOCT	6.61 A	6.67 A	6.73 A	6.79 A	6.85 A	6.90 A
Open circuit voltage (V _{oc}) at NOCT	34.12 V	34.31 V	34.50 V	34.70 V	34.89 V	35.08 V
Short circuit current (I _{sc}) at NOCT	7.18 A	7.21 A	7.23 A	7.26 A	7.28 A	7.32 A
Temperature coefficient (P _{mpp})	- 0.469%/K					
Temperature coefficient (I _{sc})	+0.052%/K					
Temperature coefficient (I _{mpp})	- 0.008%/K					
Temperature coefficient (V _{mpp})	- 0.463%/K					
Temperature coefficient (V _{oc})	- 0.344%/K					
Normal operating cell temperature (NOCT)	43±2°C					
Maximum system voltage SCII						1000 Vdc
Maximum system voltage NEC						600 Vdc / 1000 Vdc
Number of diodes						6
Maximum series fuse rating						15 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)	1652 x 994 x 40 mm 65.04 x 39.13 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (black)
Weight (module only)	19.5 kg / 42.9 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	polycrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"

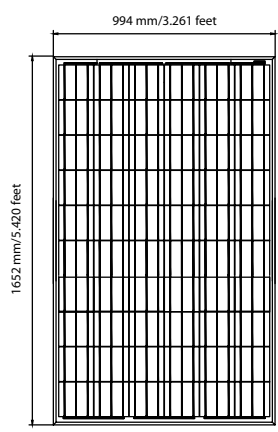
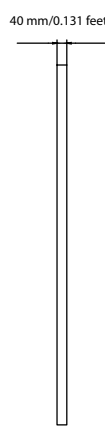
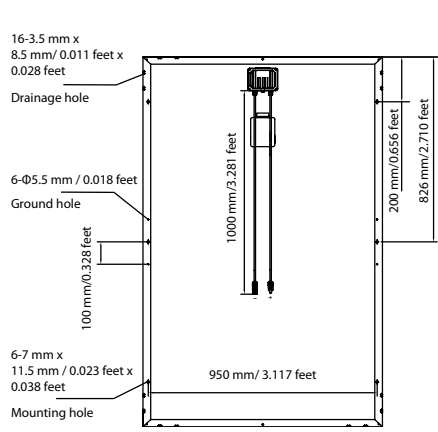
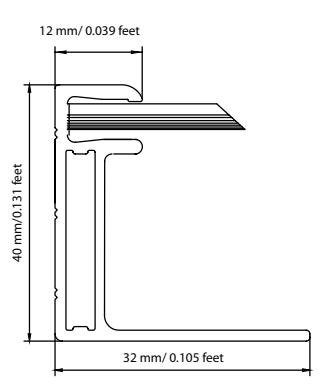
MISCELLANEOUS

Packing unit	25 modules
Weight of packing unit	530 kg / 1166 lbs

ARTICLE NUMBER (per panel)- CHSM6610P (BL) Series

Model	Article No. (IEC)	Article No. (UL)
CHSM6610P (BL)-230	200233	200239
CHSM6610P (BL)-235	200234	200240
CHSM6610P (BL)-240	200235	200241
CHSM6610P (BL)-245	200236	200242
CHSM6610P (BL)-250	200237	200243
CHSM6610P (BL)-255	200238	200244

DETAILS DES DIMENSIONS DU MODULE

Front view	Side view	Rear view	Frame cross section
			

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