



# Datasheet

## Crystalline PV Module

### NMC CHSM6610P Series

\* NMC : Cell made in Non-Mainland China

230 235 240 245 250

EN

#### ELECTRICAL SPECIFICATIONS

	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp
STC rated output ( $P_{mpp}$ )*	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp
PTC rated output ( $P_{mpp}$ **)	209.2 Wp	213.9 Wp	218.5 Wp	223.2 Wp	227.9 Wp
Standard sorted output	-0/+5 Wp				
Warranted power output STC ( $P_{mpp\ min}$ )	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp
Rated voltage ( $V_{mpp}$ ) at STC	28.78 V	29.16 V	29.54 V	29.92 V	30.30 V
Rated current ( $I_{mpp}$ ) at STC	7.99 A	8.06 A	8.13 A	8.20 A	8.27 A
Open circuit voltage ( $V_{oc}$ ) at STC	37.35 V	37.56 V	37.77 V	37.98 V	38.19 V
Short circuit current ( $I_{sc}$ ) at STC	8.53 A	8.56 A	8.59 A	8.62 A	8.65 A
Module efficiency	14.0%	14.3%	14.6%	14.9%	15.2%
Rated output ( $P_{mpp}$ ) at NOCT	172.5 Wp	176.3 Wp	180.0 Wp	183.8 Wp	187.5 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	26.08 V	26.42 V	26.75 V	27.06 V	27.37 V
Rated current ( $I_{mpp}$ ) at NOCT	6.61 A	6.67 A	6.73 A	6.79 A	6.85 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	34.12 V	34.31 V	34.50 V	34.70 V	34.89 V
Short circuit current ( $I_{sc}$ ) at NOCT	7.18 A	7.21 A	7.23 A	7.26 A	7.28 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 V <sub>dc</sub>				
Maximum system voltage NEC	600 V <sub>dc</sub>				
Number of diodes	6				
Maximum series fuse rating	15 A				

\* Measurement tolerance +/- 3%  
\*\* Estimated



## QUALIFICATION AND WARRANTIES

Product standard	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

## CELL TECHNOLOGY

Cell type	polycrystalline
Number of cells / cell arrangement	60 / 6 x10
Cells dimension	6"

## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1652 x 994 x 45 mm 65.04 x 39.13 x 1.77 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	20 kg / 44.0 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
Maximum load capacity	5400 Pa
Fire class	C
Connector type (UL)	Multi Contact type 4

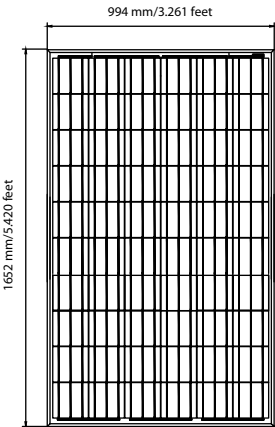
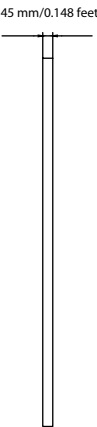
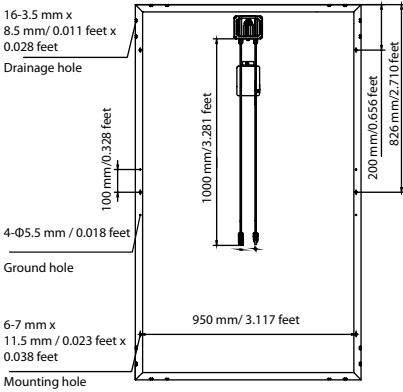
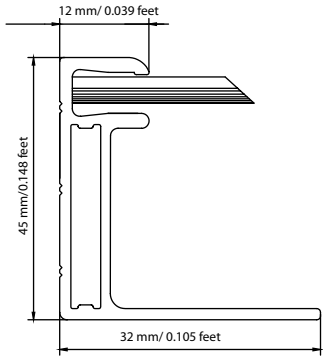
## MISCELLANEOUS

Packing unit	22 modules
Weight of packing unit	480 kg / 1056 lbs

## ARTICLE NUMBER (per panel) - (NMC) CHSM6610P Series

Model	Article No. (UL)
(NMC) CHSM6610P-230	200120
(NMC) CHSM6610P-235	200121
(NMC) CHSM6610P-240	200122
(NMC) CHSM6610P-245	200123
(NMC) CHSM6610P-250	200124

## DETAILS DES DIMENSIONS DU MODULE

Front view	Side view	Rear view	Frame cross section
			

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