

# NOVA™ Datasheet Crystalline PV Module CHSM6610M (FR) Series

270    275    280    285    290

EN

## ELECTRICAL SPECIFICATIONS

	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
STC rated output ( $P_{mpp}$ ) <sup>①</sup>	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
PTC rated output ( $P_{mpp}$ ) <sup>②</sup>	247.9 Wp	252.6 Wp	257.3 Wp	262.0 Wp	266.8 Wp
Standard sorted output	0/+5 Wp				
Warranted power output STC ( $P_{nominal}$ )	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
Rated voltage ( $V_{mpp}$ ) at STC	30.70 V	31.10 V	31.48 V	31.80 V	32.15 V
Rated current ( $I_{mpp}$ ) at STC	8.80 A	8.84 A	8.91 A	8.97 A	9.03 A
Open circuit voltage ( $V_{oc}$ ) at STC	38.12 V	38.36 V	38.83 V	39.15 V	39.45 V
Short circuit current ( $I_{sc}$ ) at STC	9.29 A	9.38 A	9.41 A	9.46 A	9.54 A
Module efficiency	16.5%	16.9%	17.2%	17.5%	17.8%
Rated output ( $P_{mpp}$ ) at NOCT	198.4 Wp	202.1 Wp	205.8 Wp	209.4 Wp	213.1 Wp
Rated voltage ( $V_{mpp}$ ) at NOCT	28.26 V	28.64 V	28.95 V	29.27 V	29.58 V
Rated current ( $I_{mpp}$ ) at NOCT	7.02 A	7.06 A	7.11 A	7.16 A	7.20 A
Open circuit voltage ( $V_{oc}$ ) at NOCT	35.36 V	35.58 V	36.02 V	36.32 V	36.60 V
Short circuit current ( $I_{sc}$ ) at NOCT	7.47 A	7.54 A	7.57 A	7.61 A	7.67 A
Temperature coefficient ( $P_{mpp}$ )	- 0.380%/K				
Temperature coefficient ( $I_{sc}$ )	+ 0.042%/K				
Temperature coefficient ( $I_{mpp}$ )	- 0.008%/K				
Temperature coefficient ( $V_{mpp}$ )	- 0.373%/K				
Temperature coefficient ( $V_{oc}$ )	- 0.284%/K				
Normal operating cell temperature (NOCT)	46±2°C				
Maximum system voltage (IEC)	1000 V <sub>dc</sub> <sup>③</sup>				
Number of diodes	3				
Maximum series fuse rating	15 A				

① Measurement tolerance +/- 3%

② Estimated

③ Option: 1500V<sub>dc</sub> for special requirement in advance

\* With Fire Class Crating certificate for Australian CEC listing



## RELATED PARAMETERS

Cell type	Monocrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"
Packing unit	25 modules
Weight of packing unit	510 kg / 1124 lbs

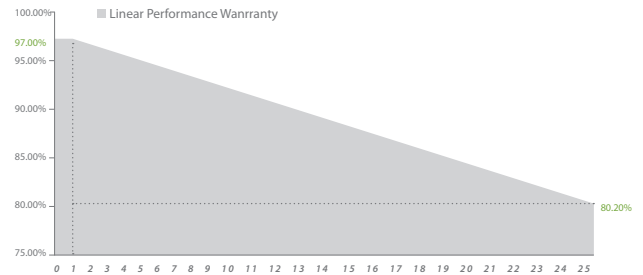
## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1648 x 990 x 40 mm 64.88 x 38.98 x 1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.6 kg / 41.01 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 67
* Cable length / diameter (IEC)	1000 mm / 39.37 in / 4 mm <sup>2</sup>
Maximum load capacity	5400 Pa
Fire class	C
Connector type (IEC)	MH5 (by Minghe) or PV-CY05L (by Chuangyuan) or PV-HCA30 (by Xinhui) or MC4 (by MC)

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

## QUALIFICATION AND LINEAR WARRANTIES

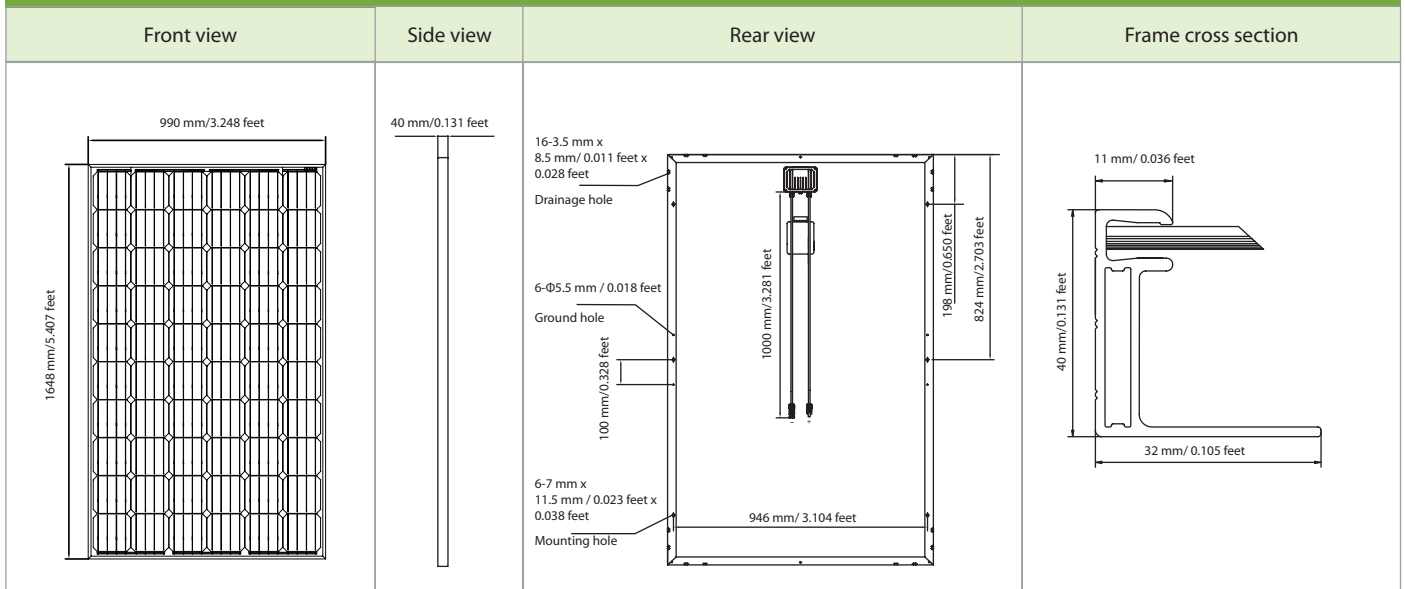
Product standard	IEC 61215, 61730
Extended product warranty	10 years
Output decline 3%/year performance P <sub>mp</sub> (STC)	1 <sup>st</sup> year
Output decline 0.7%/year performance P <sub>mp</sub> (STC)	2 <sup>nd</sup> ~ 25 <sup>th</sup> years



## ARTICLE NUMBER

Model	Article No. (IEC)
(NOVA) CHSM6610M (FR)-270	100493
(NOVA) CHSM6610M (FR)-275	100494
(NOVA) CHSM6610M (FR)-280	100495
(NOVA) CHSM6610M (FR)-285	100504
(NOVA) CHSM6610M (FR)-290	100505

## MODULE DIMENSION DETAILS



Made in China

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