

NOVA™ Datasheet Crystalline PV Module Baseline 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}) ^①	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
PTC rated output (P_{mpp}) ^②	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		Maximum system voltage (IEC)		
Temperature coefficient (I_{sc})	+0.042%/K		1000 V _{oc} ^③		
Temperature coefficient (I_{mpp})	-0.008%/K		Number of diodes		
Temperature coefficient (V_{mpp})	-0.373%/K		3		
Temperature coefficient (V_{oc})	-0.284%/K		Maximum series fuse rating		
Normal operating cell temperature (NOCT)	46±2°C		15 A		

① Measurement tolerance +/- 3%

② Estimated

③ Option: 1500VDC 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	28 modules
Weight of packing unit	557 kg / 1228 lbs

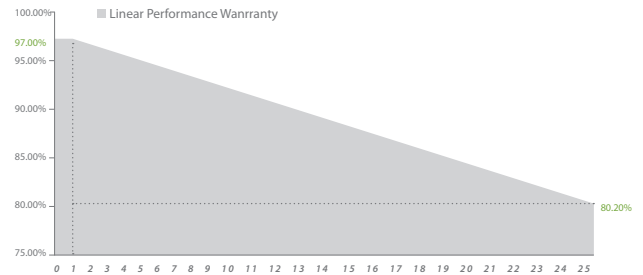
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1648 x 990 x 35 mm 64.88 x 38.98 x 1.38 in
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.3 kg / 40.34 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 67
* Cable length / diameter (IEC)	900(+)/600(-)mm / 4 mm ²
Maximum load capacity	2400 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: 1000 mm for defined projects in advance.

QUALIFICATION AND LINEAR WARRANTIES

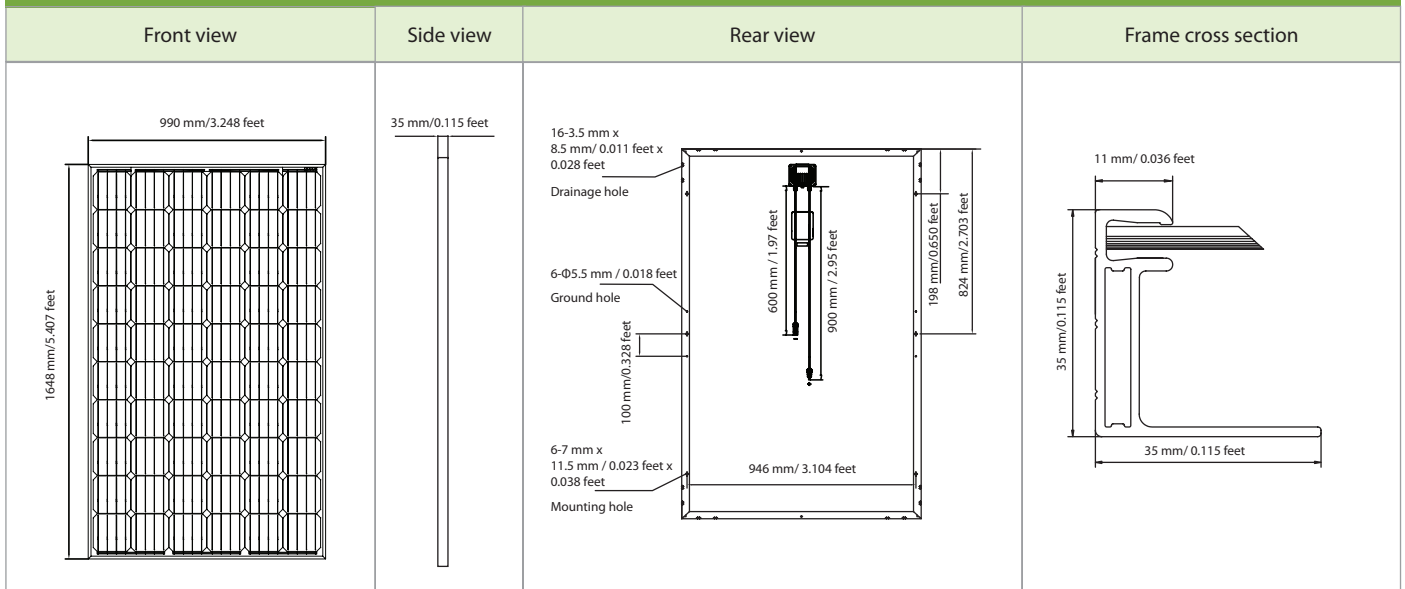
Product standard	IEC 61215, 61730
Extended product warranty	10 years
Output decline 3%/year performance P _{mpp} (STC)	1 st year
Output decline 0.7%/year performance P _{mpp} (STC)	2 nd ~ 25 th years



ARTICLE NUMBER

Model	Article No. (IEC)
(NOVA) CHSM6610M (FR)-270	100677
(NOVA) CHSM6610M (FR)-275	100678
(NOVA) CHSM6610M (FR)-280	100679
(NOVA) CHSM6610M (FR)-285	100680
(NOVA) CHSM6610M (FR)-290	100681

MODULE DIMENSION DETAILS



Made in China

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