

NOVATM

Crystalline PV Module

CHSM6610M Series

CHSM6610M/HV Series

CHSM6610M max system voltage 1000V standard, CHSM6610M/HV max system voltage 1500V standard

270 275 280 285 290

EN

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
PTC rated output (P_{mpp})**	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/UL)	1000V _{DC} / 1000V _{DC} or 1500V _{DC} / 1500V _{DC}				
Number of diodes	6 (or 3)				
Maximum series fuse rating	15 A				

* Measurement tolerance +/- 3%
** Estimated



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 (for container)	510 kg / 1124 lbs

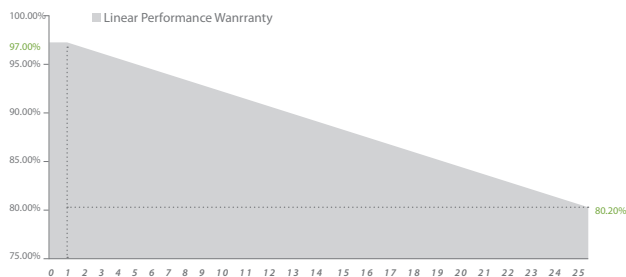
MECHANICAL SPECIFICATIONS

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 65 (above)
* Cable length(UL/IEC)	1000 mm / 39.37 in
Cable diameter (UL/IEC)	12 AWG / 4 mm ²
Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC4 compatible

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

QUALIFICATION AND LINEAR WARRANTIES

Product standard	IEC 61215, 61730 / UL 1703
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)	Article No. (UL)
(NOVA) CHSM6610M-270	100451	100458
(NOVA) CHSM6610M-275	100452	100459
(NOVA) CHSM6610M-280	100453	100460
(NOVA) CHSM6610M-285	100454	100461
(NOVA) CHSM6610M-290	100455	100462
(NOVA) CHSM6610M/HV-270	900042	900050
(NOVA) CHSM6610M/HV-275	900043	900051
(NOVA) CHSM6610M/HV-280	900044	900052
(NOVA) CHSM6610M/HV-285	900045	900053
(NOVA) CHSM6610M/HV-290	900046	900054

MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section

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