

NOVA™ II

Datasheet

Crystalline PV Module

CHSM6610M (BL) Series

- ▶ With innovational 4-busbar cells
- ▶ Unique PERC technology with optimized module process

270	275	280	285	290
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ELECTRICAL SPECIFICATIONS

	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
STC rated output (P _{mpp})*	270 Wp	275 Wp	280 Wp	285 Wp	290 Wp
PTC rated output (P _{mpp} **)	241.4 Wp	246.0 Wp	250.6 Wp	255.3 Wp	259.9 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	31.82 V	32.09 V	32.56 V	32.99 V	33.37 V
Rated current (I _{mp}) at STC	8.51 A	8.57 A	8.60 A	8.64 A	8.69 A
Open circuit voltage (V _{oc}) at STC	38.70 V	38.85 V	39.16 V	39.34 V	39.53 V
Short circuit current (I _{sc}) at STC	8.77 A	8.79 A	8.85 A	8.91 A	8.97 A
Module efficiency	16.5%	16.9%	17.2%	17.5%	17.8%
Rated output (P _{mpp}) at NOCT	195.7 Wp	199.3 Wp	202.9 Wp	206.6 Wp	210.2 Wp
Rated voltage (V _{mpp}) at NOCT	28.36 V	28.68 V	29.10 V	29.48 V	29.83 V
Rated current (I _{mp}) at NOCT	6.90 A	6.95 A	6.97 A	7.01 A	7.05 A
Open circuit voltage (V _{oc}) at NOCT	35.22 V	35.36 V	35.64 V	35.80 V	35.97 V
Short circuit current (I _{sc}) at NOCT	7.24 A	7.25 A	7.30 A	7.35 A	7.40 A
Temperature coefficient (P _{mpp})	- 0.47%/K				
Temperature coefficient (I _{sc})	+0.035%/K				
Temperature coefficient (I _{mp})	- 0.042%/K				
Temperature coefficient (V _{mpp})	- 0.433%/K				
Temperature coefficient (V _{oc})	- 0.328%/K				
Normal operating cell temperature (NOCT)	47±2°C				
Maximum system voltage (UL/IEC)	1000 V _{dc}				
Number of diodes	6 (or 3)				
Maximum series fuse rating	15 A				

* Measurement tolerance +/- 3%
 ** Estimated



RELATED PARAMETERS

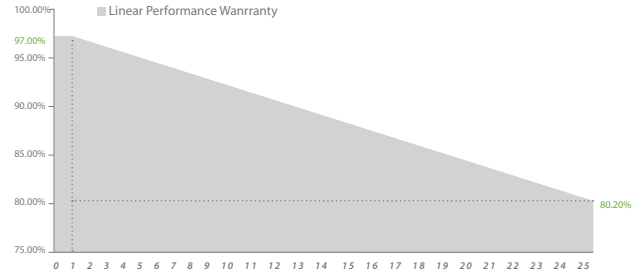
Cell type	monocrystalline
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	6"
Packing unit	25 modules
Weight of packing unit	508 kg / 1120 lbs

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, black anodized
Module composition	Glass / EVA / Backsheet (black)
Weight (module only)	18.4 kg / 40.57 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65 (above)
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 performance (UL/IEC)	Type 1 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC type 4 compatible

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 (per panel)-NOVA II CHSM6610M (BL) Series

Model	Article No. (IEC)	Article No. (UL)
(NOVA II) CHSM6610M (BL)-270	100465	100472
(NOVA II) CHSM6610M (BL)-275	100466	100473
(NOVA II) CHSM6610M (BL)-280	100467	100474
(NOVA II) CHSM6610M (BL)-285	100468	100475
(NOVA II) CHSM6610M (BL)-290	100469	100476

MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section
		<p>16-3.5 mm x 8.5 mm / 0.011 feet x 0.028 feet Drainage hole</p> <p>6-Φ5.5 mm / 0.018 feet Ground hole</p> <p>100 mm / 0.328 feet</p> <p>6-7 mm x 11.5 mm / 0.023 feet x 0.038 feet Mounting hole</p>	

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