



VIOLINTM PREMIUM

Crystalline PV Module ASM6610M Series

- ▶ With innovative 4-busbar mono cell
- ▶ Reduced series resistance
- ▶ Increased cell efficiency
- ▶ High power output

295 300 305 310

EN

ELECTRICAL SPECIFICATIONS ¹

STC ² rated output (P _{max})	295 Wp	300 Wp	305 Wp	310 Wp
Standard sorted output	-0/+3%			
Warranted power output STC (P _{nominal})	295 Wp	300 Wp	305 Wp	310 Wp
Rated voltage (V _{mpp}) at STC	31.64 V	31.75 V	31.85 V	31.96 V
Rated current (I _{mpp}) at STC	9.40 A	9.53 A	9.65 A	9.78 A
Open circuit voltage (V _{oc}) at STC	39.14 V	39.50 V	39.86 V	40.23 V
Short circuit current (I _{sc}) at STC	9.94 A	10.08 A	10.22 A	10.36 A
Module efficiency	18.03%	18.34%	18.65%	18.95%
Rated output (P _{mpp}) at NOCT ³	219.4 Wp	223.1 Wp	226.8 Wp	230.6 Wp
Rated voltage (V _{mpp}) at NOCT	29.24 V	29.34 V	29.44 V	29.53 V
Rated current (I _{mpp}) at NOCT	7.50 A	7.60 A	7.71 A	7.81 A
Open circuit voltage (V _{oc}) at NOCT	36.34 V	36.68 V	37.02 V	37.35 V
Short circuit current (I _{sc}) at NOCT	7.99 A	8.11 A	8.22 A	8.34 A

Temperature coefficient (P _{mpp})	- 0.416 % / K	Maximum system voltage	1000 V _{dc}
Temperature coefficient (I _{sc})	+0.037 % / K	Number of diodes	3
Temperature coefficient (V _{oc})	- 0.299 % / K	Reverse current loadability (IR)	20 A
Normal operating cell temperature (NOCT)	46 °C ±2 °C	Maximum series fuse rating	15 A

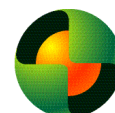
¹ Measuring uncertainty P_{mpp}: +/-3 %; Tolerance for V_{oc}, I_{sc}, V_{mpp} and I_{mpp}: +/-10 %

² Standard test conditions that are defined as follows:

1.000 W/m² irradiation at a spectral density of AM 1.5 and a cell temperature of 25° C,

³ Nominal operating temperature of the cell at 800 W/m² irradiation, 20°C ambient temperature, wind speed of 1 m/s

⁴ Manufactured in an ISO9001/14001/50001 certified facility



RELATED PARAMETERS

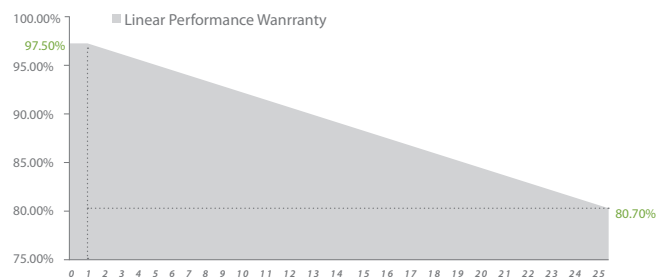
Cell type	Monocrystalline cell, 4-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	157 x 157 mm ²

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H) ⁵	1654 x 989 x 40 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.2 kg
Front glass thickness	3.2 mm
Junction box IP rating	IP 67
Cable length	1000 mm
Cable diameter	4 mm ²
Maximum load capacity ⁶	6000 Pa
Fire class (IEC 61730)	C
Connector type	MC4 original

QUALIFICATION AND LINEAR WARRANTIES

Product standard	IEC 61215 Ed. 2, IEC 61730
Extended product warranty ⁷	12 years
Performance warranty ⁷	Linear performance warranty
Year 1	>97.5% of warranted output power
Year 25	>80.7% of warranted output power



MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section
		<p>© No mounting holes on the frame.</p>	

⁵ Dimensional tolerance: +/-2 mm

⁶ In accordance with IEC 61215 Ed. 2

⁷ According to the current warranty conditions of Astronergy Solarmodule GmbH