



VIOLIN™ PREMIUM

Crystalline PV Module ASM6610M(BL) Series

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

290 295 300 305

EN

ELECTRICAL SPECIFICATIONS ¹

	290 Wp	295 Wp	300 Wp	305 Wp
STC ² rated output (P _{max})	290 Wp	295 Wp	300 Wp	305 Wp
Standard sorted output	-0/+3%			
Warranted power output STC (P _{nominal})	290 Wp	295 Wp	300 Wp	305 Wp
Rated voltage (V _{mpp}) at STC	31.75 V	31.88 V	32.02 V	32.15 V
Rated current (I _{mpp}) at STC	9.21 A	9.33 A	9.45 A	9.56 A
Open circuit voltage (V _{oc}) at STC	39.11 V	39.48 V	39.84 V	40.20 V
Short circuit current (I _{sc}) at STC	9.68 A	9.82 A	9.97 A	10.11 A
Module efficiency	17.73%	18.03%	18.34%	18.65%
Rated output (P _{mpp}) at NOCT ³	214.5 Wp	218.1 Wp	221.8 Wp	225.5 Wp
Rated voltage (V _{mpp}) at NOCT	29.15 V	29.28 V	29.40 V	29.52 V
Rated current (I _{mpp}) at NOCT	7.36 A	7.45 A	7.54 A	7.64 A
Open circuit voltage (V _{oc}) at NOCT	36.09 V	36.42 V	36.76 V	37.09 V
Short circuit current (I _{sc}) at NOCT	7.79 A	7.91 A	8.02 A	8.14 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)	48 °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, black anodized

Module composition Glass / EVA / Backsheet (black)

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 mm²

Maximum load capacity ⁶ 6000 Pa

Fire class (IEC 61730) C

Connector type MC4 original

QUALIFICATION AND LINEAR WARRANTIES

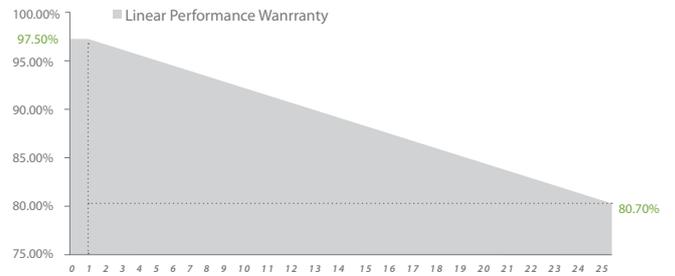
Product standard IEC 61215 Ed. 2, IEC 61730

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

© No mounting holes on the frame.

⁵ Dimensional tolerance: +/-2 mm

⁶ In accordance with IEC 61215 Ed. 2

⁷ According to the current warranty conditions of Astronergy Solarmodule GmbH

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