

VIOLIN[™] PREMIUM

Crystalline PV Module ASM6610M Series

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

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ΕN

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 (Pnominal)	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 (Voc) at STC	39.14 V	39.50 V	39.86 V	40.23 V
Short circuit current (Isc) 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 (Impp) at NOCT	7.50 A	7.60 A	7.71 A	7.81 A
Open circuit voltage (Voc) at NOCT	36.34 V	36.68 V	37.02 V	37.35 V
Short circuit current (Isc) at NOCT	7.99 A	8.11 A	8.22 A	8.34 A

Temperature coefficient (P _{mpp})	-0.416%/K
Temperature coefficient (Isc)	+0.037%/K
Temperature coefficient (Voc)	- 0.299 %/K
Normal operating cell temperature (NOCT)	46°C ±2°C

Maximum system voltage	1000 VDC
Number of diodes	3
Reverse current loadability (IR)	20 A
Maximum series fuse rating	15 A

















 $^{^1}$ Measuring uncertainity Pmpp: +/–3 %; Tolerance for Voc, lsc, Vmpp and Impp: +/–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,

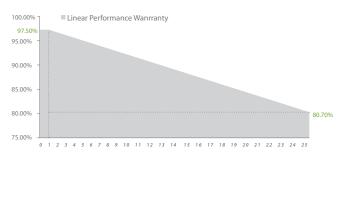
Nominal operating temperature of the cell at 800 W/m² irradiation, 20°C ambient temperature, wind speed of 1 m/s

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		
Cells dimension	157 x 157 mm²	

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	

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)	С	
Connector type	MC4 original	



MODULE DIMENSION DETAIL Front view	Side view	Rear view	Frame cross section
989	. 40.	● 05.2 ● ● 05.2 ● 085.2 ● 085.2 ● 087	13.9 mm

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⁵ Dimensional tolerance: +/-2 mm ⁶ In accordance with IEC 61215 Ed. 2 ⁷ According to the current warranty conditions of Astronergy Solarmodule GmbH