



# VIOLIN<sup>TM</sup> 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<sup>1</sup>

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

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

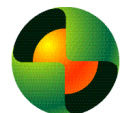
<sup>1</sup> Measuring uncertainty P<sub>mpp</sub>: +/-3 %; Tolerance for V<sub>oc</sub>, I<sub>sc</sub>, V<sub>mpp</sub> and I<sub>mpp</sub>: +/-10 %

<sup>2</sup> Standard test conditions that are defined as follows:

1.000 W/m<sup>2</sup> irradiation at a spectral density of AM 1.5 and a cell temperature of 25°C,

<sup>3</sup> Nominal operating temperature of the cell at 800 W/m<sup>2</sup> irradiation, 20°C ambient temperature, wind speed of 1 m/s

<sup>4</sup> 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 <sup>2</sup>

## MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H) <sup>5</sup> 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<sup>2</sup>

Maximum load capacity <sup>6</sup> 6000 Pa

Fire class (IEC 61730) C

Connector type MC4 original

## QUALIFICATION AND LINEAR WARRANTIES

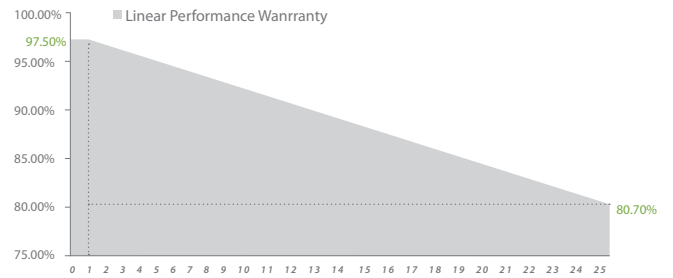
Product standard IEC 61215 Ed. 2, IEC 61730

Extended product warranty <sup>7</sup> 12 years

Performance warranty <sup>7</sup> 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.

<sup>5</sup> Dimensional tolerance: +/-2 mm

<sup>6</sup> In accordance with IEC 61215 Ed. 2

<sup>7</sup> According to the current warranty conditions of Astronergy Solarmodule GmbH

© Astronergy Solarmodule GmbH  
Specifications and designs included in this datasheet are subject to change without notice.  
All rights reserved.