

VIOLINTM

Crystalline PV Module ASM6610P Series

- ▶ With innovational 4-busbar cells
- ▶ Reducing cell series resistance
- ▶ Increasing cell efficiency
- ▶ More power output

66 Wp, 100 Wp, 125 Wp, 150 Wp, 175 Wp, 200 Wp, 225 Wp, 250 Wp, 275 Wp, 300 Wp, 325 Wp, 350 Wp, 375 Wp, 400 Wp, 425 Wp, 450 Wp, 475 Wp, 500 Wp, 525 Wp, 550 Wp, 575 Wp, 600 Wp, 625 Wp, 650 Wp, 675 Wp, 700 Wp, 725 Wp, 750 Wp, 775 Wp, 800 Wp, 825 Wp, 850 Wp, 875 Wp, 900 Wp, 925 Wp, 950 Wp, 975 Wp, 1000 Wp

250

255

260

265

270

275

EN

ELECTRICAL SPECIFICATIONS ¹

STC ² rated output (P _{max})	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Standard sorted output	-0/+3%					
Warranted power output STC (P _{mpp min})	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Rated voltage (V _{mpp}) at STC	30.29 V	30.54 V	30.79 V	31.04 V	31.29 V	31.54 V
Rated current (I _{mpp}) at STC	8.33 A	8.42 A	8.52 A	8.61 A	8.70 A	8.80 A
Open circuit voltage (V _{oc}) at STC	36.91 V	37.18 V	37.45 V	37.72 V	37.99 V	38.26 V
Short circuit current (I _{sc}) at STC	8.80 A	8.89 A	8.98 A	9.06 A	9.15 A	9.23 A
Module efficiency	15.3%	15.6%	15.9%	16.2%	16.5%	16.8%
Rated output (P _{mpp}) at NOCT ³	186.5 Wp	190.2 Wp	193.9 Wp	197.6 Wp	201.4 Wp	205.2 Wp
Rated voltage (V _{mpp}) at NOCT	27.70 V	27.93 V	28.16 V	28.39 V	28.61 V	28.84 V
Rated current (I _{mpp}) at NOCT	6.73 A	6.81 A	6.89 A	6.96 A	7.04 A	7.11 A
Open circuit voltage (V _{oc}) at NOCT	33.97 V	34.22 V	34.47 V	34.72 V	34.96 V	35.21 V
Short circuit current (I _{sc}) at NOCT	7.11 A	7.18 A	7.25 A	7.32 A	7.39 A	7.45 A

Temperature coefficient (P _{mpp})	- 0.42 % / K	Maximum system voltage	1000 V _{dc}
Temperature coefficient (I _{sc})	+0.044 % / K	Number of diodes	3
Temperature coefficient (V _{oc})	- 0.32 % / K	Reverse current loadability (I _R)	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

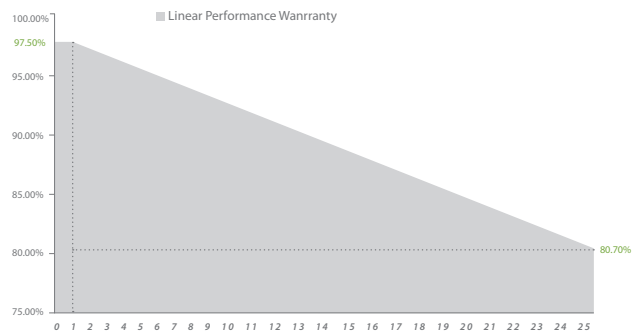
Cell type	Polycrystalline cell, 4-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	156 x 156 mm ²

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 pluggable

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

⁵ Dimensional tolerance: ± 2 mm

⁶ In accordance with IEC 61215 Ed. 2

⁷ According to the current warranty conditions of Astronergy Solarmodule GmbH