

VIOLIN™ Project

Crystalline PV Module ASM6610P Project Series

- ▶ With innovative 4-busbar technology
- ▶ Yield optimized cell matrix
- ▶ Resilient 35mm frame without hollow chamber
- ▶ Highly durable in different environments

250	255	260	265	270	275	EN
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ELECTRICAL SPECIFICATIONS¹

STC ² rated output (P _{mpp})*	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Standard sorted output	-0/+3%					
Warranted power output STC (P _{nominal})	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	34.32 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 (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 certified facility



RELATED PARAMETERS

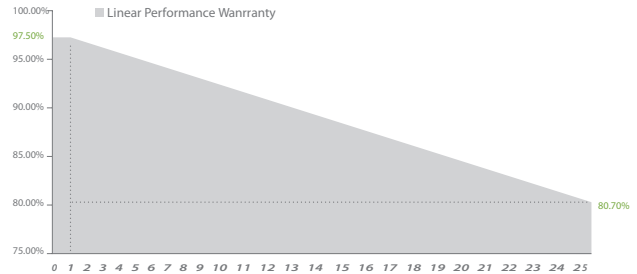
Cell type	Polycrystalline cell, 4-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	157 x 157 mm ²

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H) ⁵	1651 x 986 x 35 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	17.7 kg
Front glass thickness	3.2 mm
Junction box IP rating	IP 67
Cable length	1000 mm (incl. connectors)
Cable diameter	4 mm ²
Maximum load capacity ⁶	4400 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

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