

PENTA

Polycrystalline solar modules

ASM6610P Series

- ▶ With innovative 5-busbar poly cell
- ▶ Improved reliability
- ▶ Increased efficiency through reduced series resistance
- ▶ Highly durable in different environments

265

270

275

280

EN

ELECTRICAL SPECIFICATIONS¹

STC ² rated output (P _{mpp})*	265 Wp	270 Wp	275 Wp	280 Wp
Standard sorted output	-0/+3%			
Warranted power output STC (P _{nominal})	265 Wp	270 Wp	275 Wp	280 Wp
Rated voltage (V _{mpp}) at STC	30.75 V	30.98 V	31.20 V	31.43 V
Rated current (I _{mpp}) at STC	8.70 A	8.80 A	8.90 A	8.99 A
Open circuit voltage (V _{oc}) at STC	37.66 V	37.94 V	38.21 V	38.48 V
Short circuit current (I _{sc}) at STC	9.23 A	9.32 A	9.41 A	9.50 A
Module efficiency	16.2%	16.5%	16.8%	17.1%
Rated output (P _{mpp}) at NOCT ³	197.8 Wp	201.5 Wp	205.3 Wp	209.1 Wp
Rated voltage (V _{mpp}) at NOCT	28.13 V	28.33 V	28.54 V	28.75 V
Rated current (I _{mpp}) at NOCT	7.03 A	7.11 A	7.19 A	7.27 A
Open circuit voltage (V _{oc}) at NOCT	34.66 V	34.92 V	35.17 V	35.42 V
Short circuit current (I _{sc}) at NOCT	7.45 A	7.53 A	7.60 A	7.67 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 ISO 9001/14001/50001 certified facility



RELATED PARAMETERS

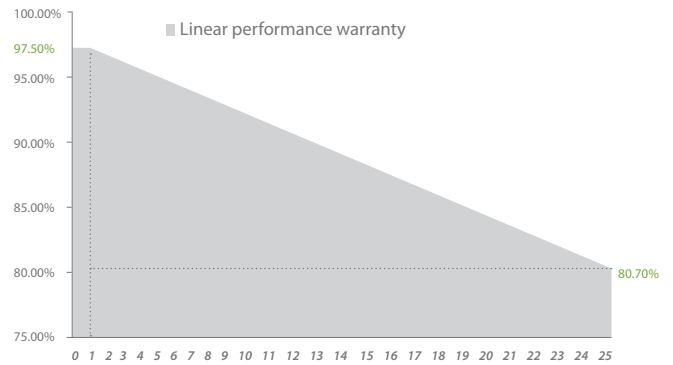
Cell type	Polycrystalline cell, 5-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	157 x 157 mm ²

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H) ⁵	1654 x 989 x 40 mm
Frame technology	Aluminum, 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 (incl. connector)
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
		<p>Frame without mounting wholes</p>	

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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