

VIOLIN™

Crystalline PV Module ASM6610P Series

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

250 255 260 265 270 275

EN

ELECTRICAL SPECIFICATIONS ¹

| | 250 Wp | 255 Wp | 260 Wp | 265 Wp | 270 Wp | 275 Wp |
|---|----------|----------|----------|----------|----------|----------|
| 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

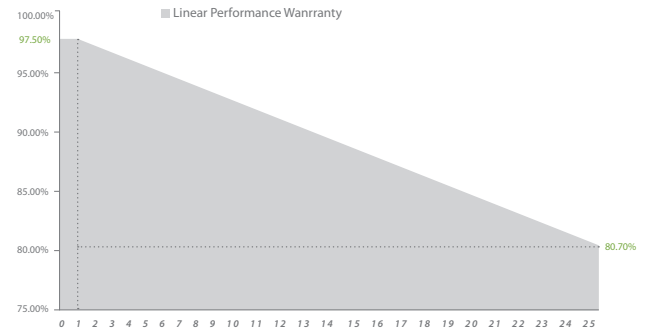
| | |
|------------------------------------|---|
| Cell type | Polycrystalline cell, 4-busbar technology |
| Number of cells / cell arrangement | 60 / 6 x 10 |
| Cells dimension | 156 x 156 mm ² |

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

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