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]						
STC [2] rated output (P_{max})	250 Wp	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp
Standard sorted output	-5/+5W					
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 uncertainity Pmpp: +/–3 %; Tolerance for Voc, Isc, Vmpp and Impp: +/–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

IEC 61215
IEC 61730
TÜVRheinland CERTIFIED
www.tuv.com ID 0000039720

APPROVED PRODUCT

CE

CERT ISO 9001 ISO 14001 [4]

CERT BS OHSAS 18001

Made in Germany

A CHINT COMPANY

ASTRONERGY

RELATED PARAMETERS

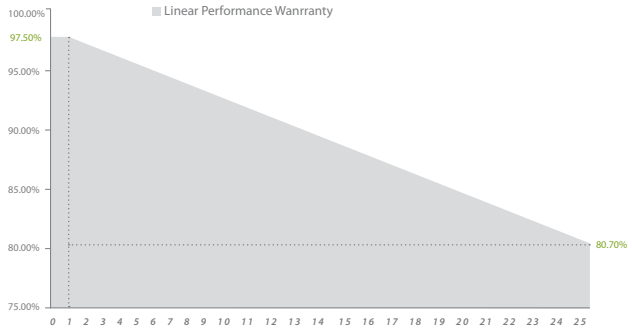
Cell type	Polycrystalline cell, 4-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	156 x 156 mm²

MECHANICAL SPECIFICATIONS

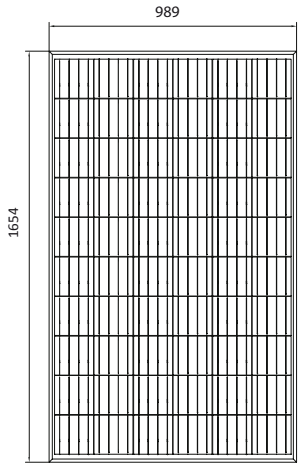
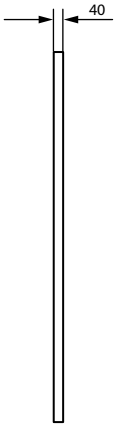
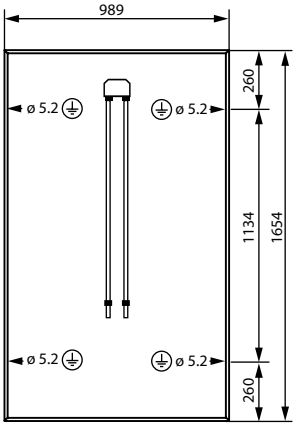
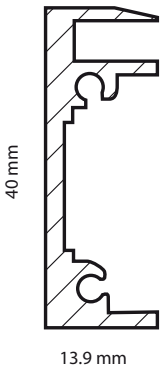
Outer dimensions (L x W x H) [5]	1654 x 989 x 40 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.2 kg
Front glass thickness	3.2 mm
Junction box IP rating	IP 67
Cable length	1000 mm
Cable diameter	4 mm²
Maximum load capacity [6]	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