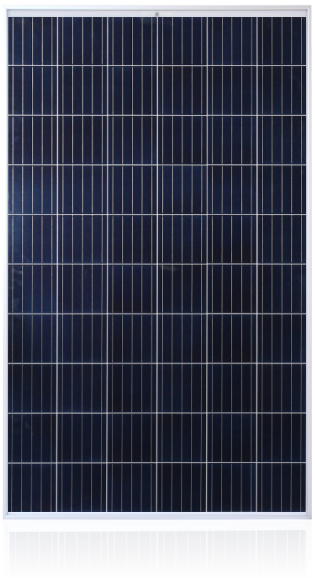


PENTA

Polycrystalline solar modules

ASM6610P Series

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

255	260	265	270	275	280	EN

ELECTRICAL SPECIFICATIONS[1]

STC[2] rated output (P_{mpp})*	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
Standard sorted output			-0/+3%			
Warranted power output STC ($P_{nominal}$)	255 Wp	260 Wp	265 Wp	270 Wp	275 Wp	280 Wp
Rated voltage (V_{mpp}) at STC	30.30 V	30.53 V	30.75 V	30.98 V	31.20 V	31.43 V
Rated current (I_{mpp}) at STC	8.50 A	8.60 A	8.70 A	8.80 A	8.90 A	8.99 A
Open circuit voltage (V_{oc}) at STC	37.12 V	37.39 V	37.66 V	37.94 V	38.21 V	38.48 V
Short circuit current (I_{sc}) at STC	9.05 A	9.14 A	9.23 A	9.32 A	9.41 A	9.50 A
Module efficiency	15.6%	15.9%	16.2%	16.5%	16.8%	17.1%
Rated output (P_{mpp}) at NOCT[3]	190.5 Wp	194.1 Wp	197.8 Wp	201.5 Wp	205.3 Wp	209.1 Wp
Rated voltage (V_{mpp}) at NOCT	27.72 V	27.92 V	28.13 V	28.33 V	28.54 V	28.75 V
Rated current (I_{mpp}) at NOCT	6.87 A	6.95 A	7.03 A	7.11 A	7.19 A	7.27 A
Open circuit voltage (V_{oc}) at NOCT	34.16 V	34.41 V	34.66 V	34.92 V	35.17 V	35.42 V
Short circuit current (I_{sc}) at NOCT	7.31 A	7.38 A	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 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 ISO 9001/14001/50001 certified facility

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

APPROVED PRODUCT MCS

CE

TÜVRheinland® CERT ISO 9001 ISO 14001 4

TÜVRheinland® CERT BS OHSAS 18001

Made in Germany

A CHINT COMPANY

ASTRONERGY

RELATED PARAMETERS

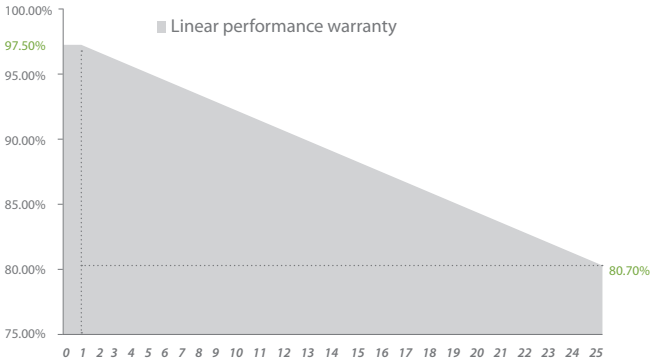
Cell type	Polycrystalline cell, 5-busbar technology
Number of cells / cell arrangement	60 / 6 x 10
Cells dimension	157 x 157 mm²

MECHANICAL SPECIFICATIONS

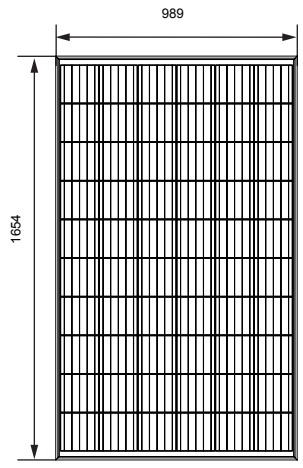
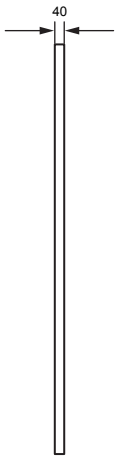
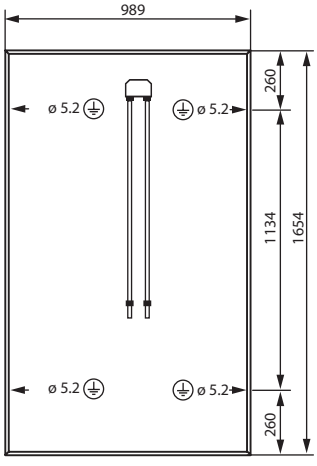
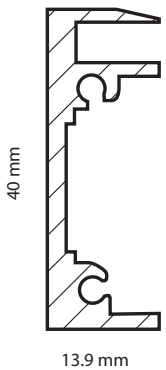
Outer dimensions (L x W x H) [5]	1654 x 989 x 40 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	18.2 kg
Front glass thickness	3.2 mm
Junction box IP rating	IP 67
Cable length	1000 mm (incl. connector)
Cable diameter	4 mm²
Maximum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

Frame without mounting wholes

[5] Dimensional tolerance: +/–2 mm
[6] In accordance with IEC 61215 Ed. 2
[7] According to the current warranty conditions of Astronergy Solarmodule GmbH