



Datasheet

Crystalline PV Module

ASM6612P Series

295	300	305	310	315	EN
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ELECTRICAL SPECIFICATIONS ¹

STC ² rated output (P _{mpp})	295 Wp	300 Wp	305 Wp	310 Wp	315 Wp
Standard sorted output	-0/+3%				
Warranted power output STC (P _{nominal})	295 Wp	300 Wp	305 Wp	310 Wp	315 Wp
Rated voltage (V _{mpp}) at STC	35.72 V	35.74 V	35.77 V	35.80 V	35.83 V
Rated current (I _{mp}) at STC	8.30 A	8.40 A	8.53 A	8.68 A	8.80 A
Open circuit voltage (V _{oc}) at STC	45.03 V	45.16 V	45.29 V	45.42 V	45.55 V
Short circuit current (I _{sc}) at STC	8.87 A	8.91 A	8.95 A	8.99 A	9.02 A
Module efficiency	15.2%	15.4%	15.7%	15.9%	16.2%
Rated output (P _{mpp}) at NOCT ³	206.0 Wp	209.5 Wp	213.0 Wp	216.5 Wp	220.0 Wp
Rated voltage (V _{mpp}) at NOCT	32.47 V	32.63 V	32.67 V	32.70 V	32.71 V
Rated current (I _{mp}) at NOCT	6.34 A	6.42 A	6.52 A	6.62 A	6.73 A
Open circuit voltage (V _{oc}) at NOCT	41.32 V	41.44 V	41.56 V	41.68 V	41.80 V
Short circuit current (I _{sc}) at NOCT	6.86 A	6.89 A	6.92 A	6.95 A	6.98 A

Temperature coefficient (P _{mpp})	- 0.408%/K
Temperature coefficient (I _{sc})	+0.050%/K
Temperature coefficient (V _{oc})	- 0.311%/K
Normal operating cell temperature (NOCT)	46±2°C

Maximum system voltage	1000 V _{dc}
Number of diodes	3
Reverse current loadability (IR)	20 A
Maximum series fuse rating	15 A

¹ Measuring uncertainty P_{mpp}: +/-3 %; Tolerance for V_{oc}, I_{sc}, V_{mpp} and I_{mp}: +/-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 UL 1703 certified facility



RELATED PARAMETERS

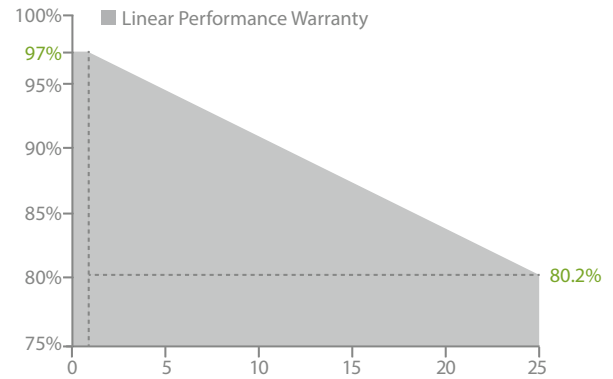
Cell type	Polycrystalline cell, 3-busbar technology
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	156 x 156 mm ²

MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H) ⁵	1956 x 994 x 50 mm
Frame technology	Aluminum, silver anodized
Module composition	Glass / EVA / Backsheet (white)
Weight (module only)	23.5 kg
Front glass thickness	3.2 mm
Junction box IP rating	IP 67
Cable length (UL/IEC)	1150 mm / 45.28 in
Cable diameter (UL/IEC)	12 AWG / 4mm ²
Maximum load capacity	5400 Pa
Fire performance (UL/IEC)	Type 2 (UL) or Class C (IEC)
Connector type (UL/IEC)	MC 4 Pluggable

QUALIFICATION AND LINEAR WARRANTIES

Product standard	IEC 61215 Ed. 2, IEC 61730 / UL 1703
Extended product warranty ⁶	10 years
Performance warranty ⁶	Linear performance warranty
Year 1	>97% of warranted output power
Year 25	>80% of warranted output power



MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section

⁵ Dimensional tolerance: +/-2 mm

⁶ According to the current warranty conditions of Astronergy Solarmodule GmbH

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