

Datasheet

Crystalline PV Module

ASM6612P Series

305 | 310 | 315 | 320 | 325

EN

ELECTRICAL SPECIFICATIONS ¹

	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp
STC ² rated output (P_{mpp})	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp
PTC ² rated output (P_{mpp})	277.9 Wp	282.5 Wp	287.2 Wp	291.9 Wp	296.6 Wp
Standard sorted output	-0/+5%				
Warranted power output STC ($P_{nominal}$)	305 Wp	310 Wp	315 Wp	320 Wp	325 Wp
Rated voltage (V_{mpp}) at STC	35.77 V	35.80 V	35.83 V	35.86 V	36.31 V
Rated current (I_{mpp}) at STC	8.53 A	8.68 A	8.80 A	8.92 A	8.95 A
Open circuit voltage (V_{oc}) at STC	45.29 V	45.42 V	45.55 V	45.68 V	45.82 V
Short circuit current (I_{sc}) at STC	8.95 A	8.99 A	9.02 A	9.06 A	9.10 A
Module efficiency	15.8%	16.0%	16.3%	16.5%	16.8%
Rated output (P_{mpp}) at NOCT ³	213.0 Wp	216.5 Wp	220.0 Wp	223.5 Wp	226.9 Wp
Rated voltage (V_{mpp}) at NOCT	32.67 V	32.70 V	32.71 V	32.72 V	33.18 V
Rated current (I_{mpp}) at NOCT	6.52 A	6.62 A	6.73 A	6.83 A	6.84 A
Open circuit voltage (V_{oc}) at NOCT	41.56 V	41.68 V	41.80 V	41.92 V	42.04 V
Short circuit current (I_{sc}) at NOCT	6.92 A	6.95 A	6.98 A	7.01 A	7.04 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_{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 UL 1703 certified facility



RELATED PARAMETERS

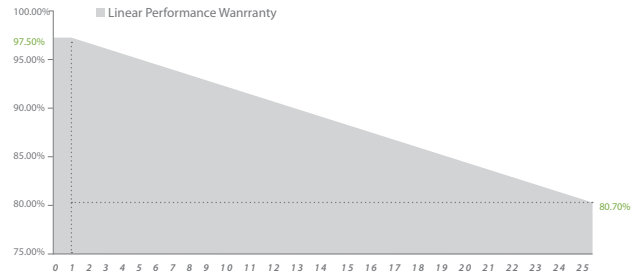
Cell type	Polycrystalline cell, 3-busbar technology
Number of cells / cell arrangement	72 / 6 x 12
Cells dimension	156 x 156 mm ²

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	12 years
Performance warranty ⁶	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 According to the current warranty conditions of Astronergy Solarmodule GmbH

© Astronergy Solarmodule GmbH
Specifications and designs included in this datasheet are subject to change without notice.
All rights reserved.