Sunmodule^{*} Plus SW 280 - 295 mono







Quality made by SolarWorld



TUV Power controlled: Lowest measuring tolerance in industry





Sunmodule Plus: Positive performance tolerance



25 year linear performance warranty and 10 year product warranty

SolarWorld quality standards go far beyond the norm. SolarWorld applies these high standards for product quality at all its production sites. SolarWorld specifications, quality guidelines and tests, and defined quality materials are the same throughout the world.

The TUV Rheinland Power controlled inspection mark guarantees that the nominal power indicated for solar modules is inspected at regular intervals and thus ensured. The deviation to TUV is maximum 2 percent.

The positive power tolerance guarantees utmost system efficiency. Only modules achieving or exceeding the designated nominal power in performance tests are dispatched. The power tolerance ranges between -0 Wp and +5 Wp.

With its linear performance warranty covering a period of 25 years, SolarWorld guarantees a maximum performance degression of 0.7% p.a., a significant added value compared to the two-phase warranties common in the industry. Therefore, the service certificate offers comprehensive protection for your investment in the long term.



Sunmodule^{*} Plus SW 280 - 295 mono



*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

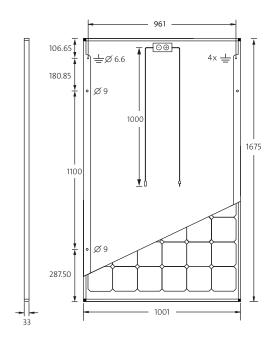
		SW 280	SW 285	SW 290	SW 295
Maximum power	P _{max}	280 Wp	285 Wp	290 Wp	295 Wp
Open circuit voltage	U _{oc}	39.5 V	39.7 V	39.9 V	40 V
Maximum power point voltage	U _{mpp}	31.2 V	31.3 V	31.4 V	31.5 V
Short circuit current	l _{sc}	9.71 A	9.84 A	9.97 A	10.1 A
Maximum power point current	I mpp	9.07 A	9.20 A	9.33 A	9.45 A
Module efficiency	η"	16.7 %	17 %	17.3 %	17,59 %

Messtoleranz (P_{max}) rückführbar auf TÜV Rheinland: +/- 2% (TÜV Power controlled)

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 280	SW 285	SW 290	SW 295
Maximum power	P _{max}	209.2 Wp	213.1 Wp	217.1 Wp	220.5 Wp
Open circuit voltage	U _{oc}	36.1 V	36.4 V	36.6 V	36.7 V
Maximum power point voltage	U _{mpp}	28.5 V	28.7 V	28.8 V	28.9 V
Short circuit current	l sc	7.85 A	7.96 A	8.06 A	8.17 A
Maximum power point current	I mpp	7.33 A	7.43 A	7.54 A	7.64 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 97% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.





COMPONENT MATERIALS

Cells per module	60
Cell type	Mono crystalline PERC
Cell dimensions	156 mm x 156 mm
Front	Tempered safety glass (EN 12150)
Back	Film, white
Frame	Clear anodized aluminum
J-Box	IP65
Connector	H4

DIMENSIONS / WEIGHT

THERMAL CHARACTERISTICS

Length	1675 mm	NOCT	46 °C
Width	1001 mm	TK I _{sc}	0.040 %/K
Height	33 mm	TK U _{oc}	-0.30 %/K
Weight	18.0 kg	TK P _{mpp}	-0.41 %/K

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

-0 Wp / +5 Wp
1000 V
25 A
5.4 / 2.4 kN/m ²
3
-40 °C to +85 °C

ORDERING INFORMATION

Order number	Description
82000068	Sunmodule Plus SW 280 mono
82000070	Sunmodule Plus SW 285 mono
82000072	Sunmodule Plus SW 290 mono
82000074	Sunmodule Plus SW 295 mono

SolarWorld AG reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380.