Sunmodule Plus **SW 285-300 MONO**





TUV Power controlled: Lowest measuring tolerance in industry



Every component is tested to meet 3 times IEC requirements



Designed to withstand heavy accumulations of snow and ice



Sunmodule Plus: Positive performance tolerance



25-year linear performance warranty and 10-year product warranty



Glass with anti-reflective coating



World-class quality

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

SolarWorld Plus-Sorting

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

25-year linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance digression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry, along with our industry-first 10-year product warranty.**

- * Solar cells manufactured in U.S.A. or Germany. Modules assembled in U.S.A.
- **in accordance with the applicable SolarWorld Limited Warranty at purchase. www.solarworld.com/warranty



- Qualified, IEC 61215
 Safety tested, IEC 61730
 Blowing sand resistance, IEC 60068-2-68
 Ammonia resistance, IEC 62716
 Salt mist corrosion, IEC 61701
 Periodic inspection













Sunmodule* Plus sw 285-300 mono



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

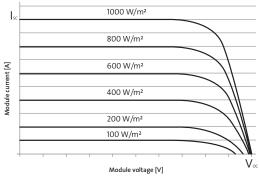
		SW 285	SW 290	SW 295	SW 300
Maximum power	P _{max}	285 Wp	290 Wp	295 Wp	300 Wp
Open circuit voltage	V _{oc}	39.7 V	39.9 V	40.0 V	40.1 V
Maximum power point voltage	V_{mpp}	31.3 V	31.4 V	31.5 V	31.6 V
Short circuit current	I _{sc}	9.84 A	9.97 A	10.10 A	10.23 A
Maximum power point current	I _{mpp}	9.20 A	9.33 A	9.45 A	9.57 A
Module efficiency	n _m	17.00 %	17.30 %	17.59 %	17.89 %

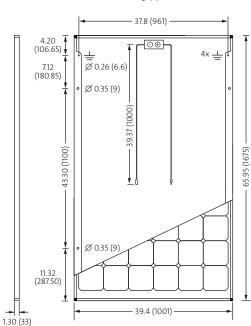
*STC: 1000W/m2, 25 °C, AM 1.5

PERFORMANCE AT 800 W/M², NOCT, AM 1.5

		SW 285	SW 290	SW 295	SW 300
Maximum power	P _{max}	213.1 Wp	217.1 Wp	220.5 Wp	224.1 Wp
Open circuit voltage	V _{oc}	36.4 V	36.6 V	36.7 V	36.9 V
Maximum power point voltage	V_{mpp}	28.7 V	28.8 V	28.9 V	31.1 V
Short circuit current	I _{sc}	7.96 A	8.06 A	8.17 A	8.27 A
Maximum power point current	I _{mpp}	7.43 A	7.54 A	7.64 A	7.75 A

Minor reduction in efficiency under partial load conditions at 25 °C: at 200 W/m², 100% of the STC efficiency (1000 W/m²) is achieved.





All units provided are imperial. SI units provided in parentheses. SolarWorld AG reserves the right to make specification changes without notice.

COMPONENT MATERIALS

Cells per module	60	Front	Low-iron tempered glass with ARC (EN 12150)
Cell type	Monocrystalline 5-busbar	Frame	Clear anodized aluminum
Cell dimensions	6.17 in x 6.17 in (156.75 x 156.75 mm)	Weight	39.7 lbs (18.0 kg)

THERMAL CHARACTERISTICS

NOCT	46 °C
TCI _{sc}	0.04 % / °C
TCV _{oc}	-0.30 % / °C
TCP _{mpp}	-0.41 % / °C
Operating temp	-40 to +85 °C

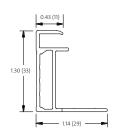
ADDITIONAL DATA

Power sorting	-0 Wp/+5 Wp		
J-Box	IP65		
Connector with	PV wire per UL4703 H4/UTX connectors		
Module fire performance	(UL 1703) Type 1		

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum system voltage SC II / NEC		1000 V	
Maximum reverse current		25 A	
Number of bypass di	iodes	3	
Design loads*	Two rail system	113 psf downward, 64 psf upward	
Design loads*	Three rail system	178 psf downward, 64 psf upward	
Design loads*	Edge mounting	178 psf downward, 41 psf upward	

^{*}Please refer to the Sunmodule installation instructions for the details associated with these load cases.



- Compatible with both "Top-Down" and "Bottom" mounting methods
- - 4 locations along the length of the module in the extended flange.