Sunmodule Plus **SW 280-295 MONO (33mm frame)**





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.*

*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 280-295 MONO (33mm frame)



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

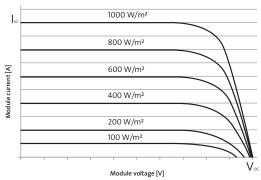
		SW 280	SW 285	SW 290	SW 295
Maximum power	P _{max}	280 Wp	285 Wp	290 Wp	295 Wp
Open circuit voltage	V _{oc}	39.5 V	39.7 V	39.9 V	40.0 V
Maximum power point voltage	V_{mpp}	31.2 V	31.3 V	31.4 V	31.5 V
Short circuit current	I _{sc}	9.71 A	9.84 A	9.97 A	10.10 A
Maximum power point current	I _{mpp}	9.07 A	9.20 A	9.33 A	9.45 A
Module efficiency	η _m	16.70 %	17.00 %	17.30 %	17.59 %

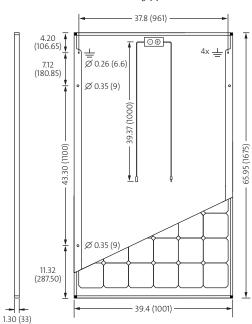
*STC: 1000W/m², 25°C, AM 1.5

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	V _{oc}	36.1 V	36.4 V	36.6 V	36.7 V
Maximum power point voltage	V_{mpp}	28.5 V	28.7 V	28.8 V	28.9 V
Short circuit current	I _{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, 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	Mono crystalline	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 %/K
TCV _{oc}	-0.30 %/K
TCP _{mpp}	-0.41 %/K
Operating temp	-40° C to +85° C

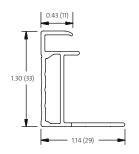
ADDITIONAL DATA

Power sorting	-0 Wp/+5 Wp		
J-Box	IP65		
Connector	PV wire per UL4703 with H4 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 diodes		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		

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



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

SW-01-7500US 07-2015