Sunmodule Plus SW 280-290 MONO BLACK (5-busbar)





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 280-290 MONO BLACK (5-busbar)



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

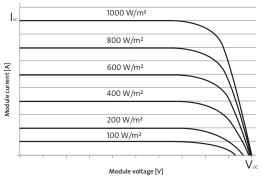
		SW 280	SW 285	SW 290
Maximum power	P _{max}	280 Wp	285 Wp	290 Wp
Open circuit voltage	V _{oc}	39.5 V	39.7 V	39.9 V
Maximum power point voltage	V_{mpp}	31.2 V	31.3 V	31.4 V
Short circuit current	I _{sc}	9.71 A	9.84 A	9.97 A
Maximum power point current	I _{mpp}	9.07 A	9.20 A	9.33 A
Module efficiency	η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

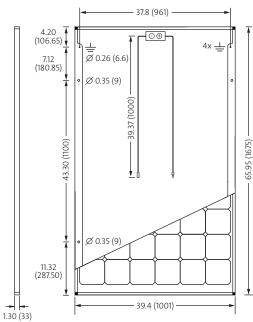
*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/M², NOCT, AM 1.5

		SW 280	SW 285	SW 290
Maximum power	P _{max}	207.2 Wp	211.1 Wp	215 Wp
Open circuit voltage	V _{oc}	35.8 V	36.0 V	36.2 V
Maximum power point voltage	V_{mpp}	28.3 V	28.4 V	28.5 V
Short circuit current	I _{sc}	7.85 A	7.96 A	8.06 A
Maximum power point current	I _{mpp}	7.33 A	7.43 A	7.54 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 empered glass with ARC (EN 12150)
Cell type	Mono crystalline 5-busbar	Frame	Black anodized aluminum
Cell dimensions	6.17 in x 6.17 in (156.75 x 156.75 mm)	Weight	39.7 lbs (18.0 kg)

ADDITIONAL DATA

THERMAL CHARACTERISTICS

48°C
0.044 %/0
-0.31 %/0
-0.43 %/0
-40 to +85 °C

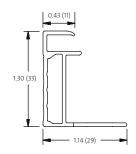
Power sorting	-0 Wp/+5 Wp
J-Box	IP65
Connector	PV wire per UL4703 with H4/UTX connectors

Module fire performance (UL 1703) Type 1

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum system voltage SC II / NEC	
	25 A
	3
Two rail system	113 psf downward, 64 psf upward
Three rail system	178 psf downward, 64 psf upward
Edge mounting	178 psf downward, 41 psf upward
	Two rail system Three rail system

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



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

SW-01-7515US 160311