Sunmodule Plus SW 290 / 300 MONO





HIGH QUALITY ENGINEERING BY SOLARWORLD

More than 40 years of technology expertise, ongoing innovation and continuous optimization create the foundation for the performance of SolarWorld's high-quality modules. We guarantee our customers the highest quality during all steps of production. Our modules are extremely flexible when it comes to their application and provide optimal solutions for installation and non-stop performance – worldwide.

- Extremely tough and stable, desipite its light weight able to handle loads up to 8.5 kN/m².
- Tested in extreme weather conditions hail impact tested and resistant to salt spray, frost, ammonia, dust and sand.
- Proven guarantee against hotspots and PID- free to IEC 62804-1.
- Highly-efficient cells (mono PERC) for the highest possible yields.

- Patented corner design with integrated drainage for optimized self-cleaning.
- High-transmissive front glass and anti-reflective coating.
- Long-term safety and guaranteed top performance At least 97% of nominal power in the first year – 25-year linear performance warranty – 20-year product warranty.



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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 290	SW 300
Maximum power	P_{max}	290 Wp	300 Wp
Open circuit voltage	U _{oc}	39.6 V	40.0 V
Maximum power point voltage	U _{mpp}	31.9 V	32.6 V
Short circuit current	I _{sc}	9.75 A	9.83 A
Maximum power point current	I _{mpp}	9.20 A	9.31 A
Module efficiency	η_{m}	17.30 %	17.89 %

Measuring tolerance (P_{max}) +/- 2 %

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 290	SW 300
Maximum power	P_{max}	219.6 Wp	226.7 Wp
Open circuit voltage	U _{oc}	36.7 V	37.0 V
Maximum power point voltage	U_{mpp}	29.5 V	30.2 V
Short circuit current	I _{sc}	7.99 A	8.06 A
Maximum power point current	I _{mpp}	7.43 A	7.52 A

 $Minor\ reduction\ in\ efficiency\ under\ partial\ load\ conditions\ at\ 25^{\circ}C:\ at\ 200\ W/m^{2},\ 97\%\ (+/-3\%)\ of\ the\ STC\ efficiency\ (1000\ W/m^{2})\ is\ achieved.$

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Power sorting	-0 Wp / +10 Wp
Maximum system voltage IEC/ NEC	1000 V / 1000 V
Maximum reverse current	25 A
Number of bypass diodes	3
Operating range	-40°C - +85°C
Maximum Design Loads (Two rail system)*	+5.4 kN/m² / -3.1 kN/m²
Maximum Design Loads (Three rail system)*	+8.5 kN/m² / -3.1 kN/m²

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

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	Black anodized aluminum	
J-Box	IP65	
Connector	Amphenol H4 UTX	

DIMENSIONS / WEIGHT

Length	1675 mm
Width	1001 mm
Height	33 mm
Weight	18.0 kg

THERMAL CHARACTERISTICS

NOCT	46 °C
TK I _{sc}	0.070 %/K
TK U _{oc}	-0.29 %/K
TK P _{mpp}	-0.39 %/K

ORDERING INFORMATION

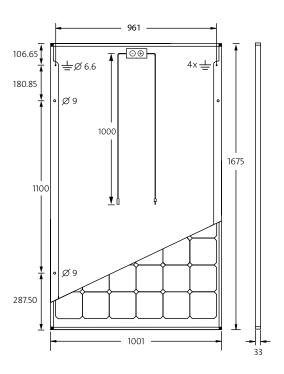
Order number	Description
82000482	Sunmodule Plus SW 290 mono
82000432	Sunmodule Plus SW 300 mono











CERTIFICATES AND WARRANTIES

Certificates Warranties	Linear Perfor	25 years	
	Product War	20 years	
	IEC 62716	IEC 60068-2-68	IEC 61701
	IEC 61730 IEC 61215		UL 1703