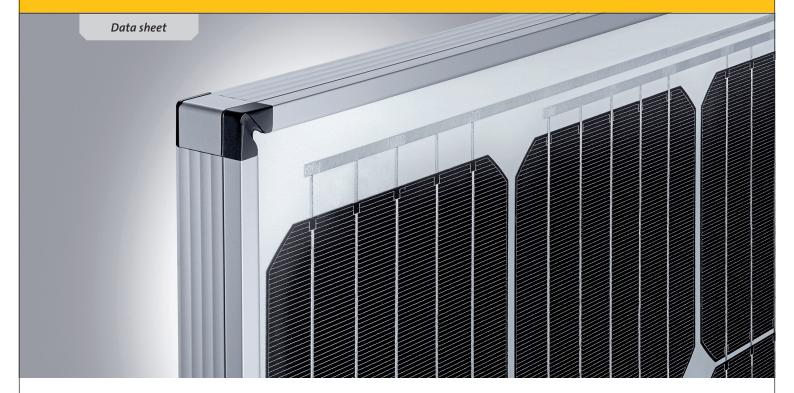
Sunmodule Plus SW 290 - 300 MONO





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. All production steps, from silicon to module, are established at our production sites, ensuring the highest quality for our customers every step of the way. Our modules are extremely flexible when it comes to their application and provide optimal solutions for installation and non-stop performance – worldwide.

- Especially stable, despite its low weight mechanical resilience of up to 8.5 kN/m²
- Tested in extreme weather conditions resistance to salt spray, frost and hail-proof, resistance to ammonia, dust and sand
- PID-resistant and proven hotspot guarantee
- Highly-efficient cells (mono PERC) for the highest possible yields

- ► Harmonized components such as mounting systems, connector cables, inverters and energy storage systems can be delivered as complete system
- Patented drainage corners for optimized self-cleaning
- Front glass with an anti-reflective coating
- Long-term safety and guaranteed top performance 25-year linear performance warranty 10-year product warranty



Sunmodule Plus SW 290 - 300 MONO



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 290	SW 295	SW 300
Maximum power	P_{max}	290 Wp	295 Wp	300 Wp
Open circuit voltage	U _{oc}	39.9 V	40 V	40.1 V
Maximum power point voltage	U_{mpp}	31.4 V	31.5 V	31.6 V
Short circuit current	I _{sc}	9.97 A	10.1 A	10.23 A
Maximum power point current	I _{mpp}	9.33 A	9.45 A	9.57 A
Module efficiency	η_m	17.3 %	17.59 %	17.89 %

Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power controlled, ID 0000039351)

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 290	SW 295	SW 300
Maximum power	P_{max}	217.1 Wp	220.5 Wp	222.7 Wp
Open circuit voltage	U _{oc}	36.6 V	36.7 V	36.8 V
Maximum power point voltage	U_{mpp}	28.8 V	28.9 V	29.0 V
Short circuit current	I _{sc}	8.06 A	8.17 A	8.28 A
Maximum power point current	I _{mpp}	7.54 A	7.64 A	7.78 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 / +5 Wp
Maximum system voltage IEC	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	Clear anodized aluminum	
J-Box	IP65	
Connector	H4	

DIMENSIONS / WEIGHT

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

THERMAL CHARACTERISTICS

NOCT	46 °C
TK I _{sc}	0.040 %/K
TK U _{oc}	-0.30 %/K
TK P _{mpp}	-0.41 %/K

ORDERING INFORMATION

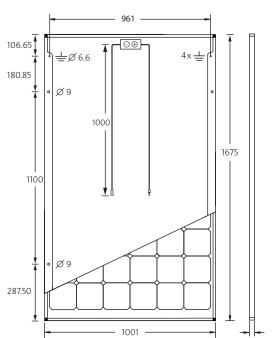
Order number	Description
82000072	Sunmodule Plus SW 290 mono
82000074	Sunmodule Plus SW 295 mono
82000076	Sunmodule Plus SW 300 mono











CERTIFICATES AND WARRANTIES

Warranties	Linear Perfo	25 years	
	Product War	10 years	
Certificates	IEC 62716	IEC 60068-2-68	IEC 61701
	IEC 61730	IEC 61730 IEC 61215	