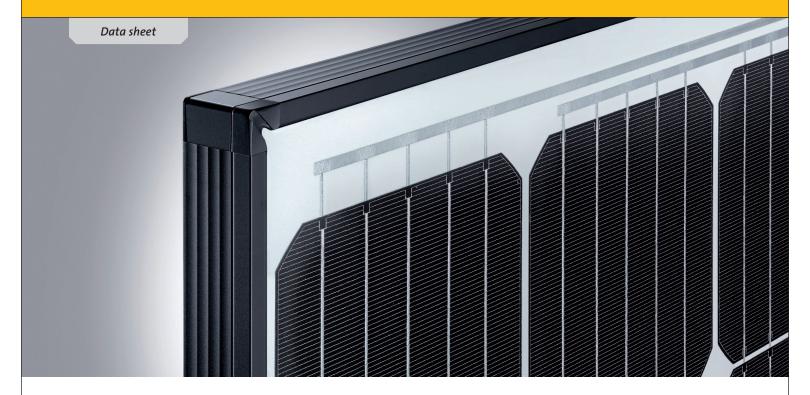
Sunmodule Plus SW 290 - 300 MONO





QUALITY BY SOLARWORLD

SolarWorld's foundation is built on more than 40 years of ongoing innovation, continuous optimization and technology expertise. All production steps from silicon to module are established at our production sites ensuring the highest possible quality for our customers. Our modules come in a variety of different sizes and power, making them suitable for all global applications – from residential solar systems to large-scale power plants.

- Extremely tough and stable, despite its light weight able to handle loads up to 178 psf (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
- SolarWorld EfficelI™ PERC cell technology for the highest possible energy yields

- Patented corner design with integrated drainage for optimized self-cleaning
- High-transmissive glass with anti-reflective coating
- Long-term safety and guaranteed top performance 25-year linear performance warranty; 20-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	V _{oc}	39.6 V	39.8 V	40.0 V	
Maximum power point voltage	V_{mpp}	31.9 V	32.3 V	32.6 V	
Short circuit current	I _{sc}	9.75 A	9.78 A	9.83 A	
Maximum power point current	I _{mpp}	9.20 A	9.25 A	9.31 A	
Module efficiency	$\eta_{\scriptscriptstyle m}$	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}	219.6 Wp	223.6 Wp	226.7 Wp
Open circuit voltage	V _{oc}	36.7 V	36.9 V	37.0 V
Maximum power point voltage	V_{mpp}	29.5 V	29.9 V	30.2 V
Short circuit current	I _{sc}	7.99 A	8.01 A	8.06 A
Maximum power point current	I _{mpp}	7.43 A	7.47 A	7.52 A

Minor reduction in efficiency under partial load conditions at 25 °C: at 200 W/m², 97% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Power sorting Power sorting	-0 Wp / +5 Wp	
Maximum system voltage SC II / NEC	1000 V	
Maximum reverse current	25 A	
Number of bypass diodes	3	
Operating temperature	-40 to +85 °C	
Maximum design loads (Two rail system)*	113 psf downward, 64 psf upward	
Maximum design loads (Three rail system)*	178 psf downward, 64 psf upward	

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

COMPONENT MATERIALS

Cells per module	60
Cell type	Monocrystalline PERC
Cell dimensions	6 in x 6 in (156 mm x 156 mm)
Front	Tempered safety glass with ARC (EN 12150)
Back	Multi-layer polymer backsheet, white
Frame	Black anodized aluminum
J-Box	IP65
Connector	PV wire (UL4703) with Amphenol UTX connectors
Module fire performance	(UL 1703) Type 1

DIMENSIONS / WEIGHT

Length	65.95 in (1675 mm)
Width	39.40 in (1001 mm)
Height	1.30 in (33 mm)
Weight	39.7 lb (18.0 kg)

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I _{sc}	0.07 % /C
TC V _{oc}	-0.29 % /C
TC P _{mpp}	-0.39 % /C

ORDERING INFORMATION

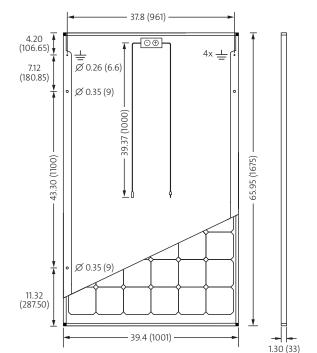
Order number	Description
82000482	Sunmodule Plus SW 290 mono (black frame)
82000430	Sunmodule Plus SW 295 mono (black frame)
82000432	Sunmodule Plus SW 300 mono (black frame)











All units provided are imperial. SI units provided in parentheses.

CERTIFICATES AND WARRANTIES

Certificates Warranties*	IEC 61730	IEC 61215	UL 1703
	IEC 62716	IEC 60068-2-68	IEC 61701
	Product Warra	Product Warranty	
vvarranties	Linear Perforn	25 years	

^{*}Supplemental warranty coverage available through SolarWorld Assurance™ Warranty Protection Program — www.solarworld.com/assurance