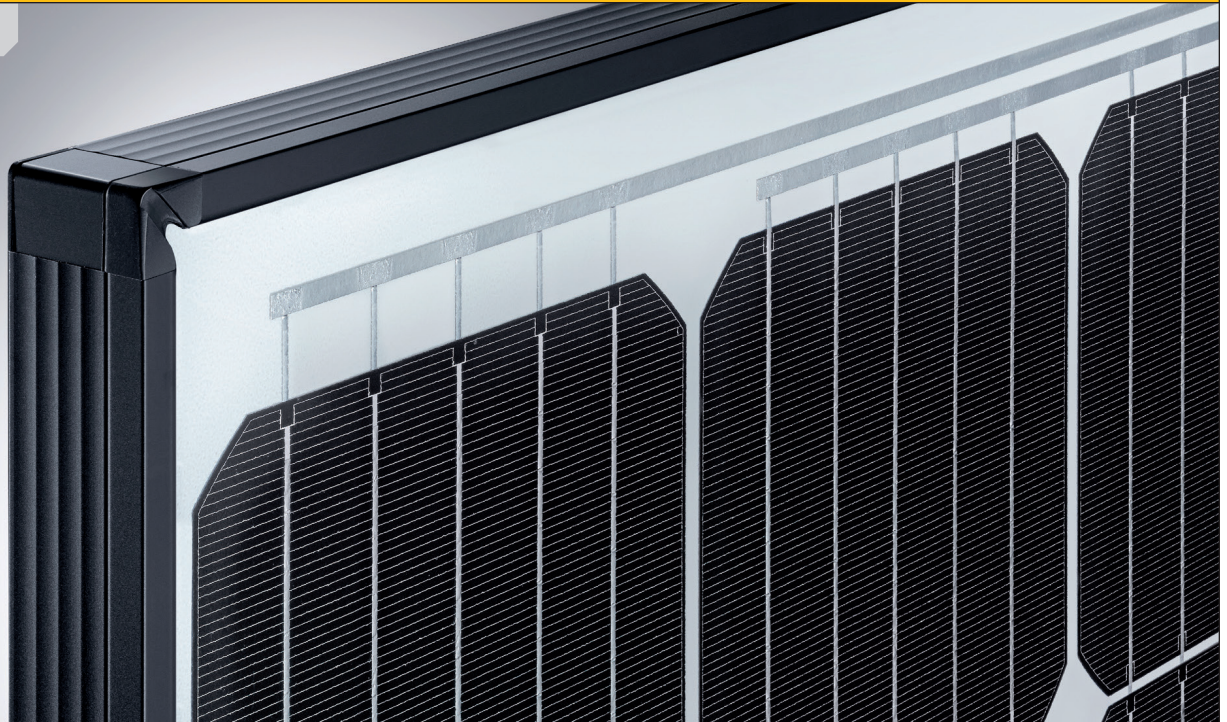


Sunmodule® Plus

SW 285 MONO



Data sheet



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 EffiCells™ 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 285 MONO



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 285
Maximum power	P_{max}	285 Wp
Open circuit voltage	V_{oc}	29.4 V
Maximum power point voltage	V_{mpp}	31.7 V
Short circuit current	I_{sc}	9.68 A
Maximum power point current	I_{mpp}	9.12 A
Module efficiency	η_m	17.0 %

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 285
Maximum power	P_{max}	216.2 Wp
Open circuit voltage	V_{oc}	36.5 V
Maximum power point voltage	V_{mpp}	29.3 V
Short circuit current	I_{sc}	7.93 A
Maximum power point current	I_{mpp}	7.37 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	-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

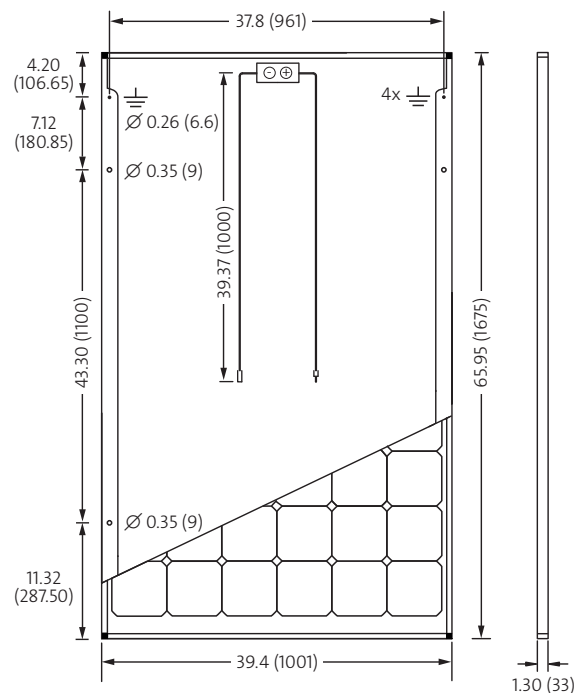
Cells per module	60
Cell type	Monocrystalline PERC
Cell dimensions	6 in x 6 in (156 mm x 156 mm)
Front	Tempered safety glass with ARC (EN 12150)
Back	Multi-layer polymer backsheet, white
Frame	Black anodized aluminum
J-Box	IP65
Connector	PV wire (UL4703) with Amphenol UTX connectors
Module fire performance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



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

ORDERING INFORMATION

Order number	Description
82000480	Sunmodule Plus SW 285 mono (black frame)

CERTIFICATES AND WARRANTIES

Certificates	IEC 61730	IEC 61215	UL 1703
	IEC 62716	IEC 60068-2-68	IEC 61701
Warranties	Product Warranty	20 years	
	Linear Performance Guarantee	25 years	