

Sunmodule®

SW 340 - 350 XL 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.

- » Lower BOS costs than for 60-cell modules – faster return on investment
- » 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 Efficell™ 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



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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 340	SW 345	SW 350
Maximum power	P_{max}	340 Wp	345 Wp	350 Wp
Open circuit voltage	V_{oc}	47.0 V	47.2 V	47.3 V
Maximum power point voltage	V_{mpp}	37.1 V	37.5 V	37.8 V
Short circuit current	I_{sc}	9.81 A	9.82 A	9.82 A
Maximum power point current	I_{mpp}	9.26 A	9.28 A	9.29 A
Module efficiency	η_m	17.04 %	17.29 %	17.54 %

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 340	SW 345	SW 350
Maximum power	P_{max}	257.3 Wp	260.4 Wp	262.2 Wp
Open circuit voltage	V_{oc}	43.6 V	43.6 V	43.7 V
Maximum power point voltage	V_{mpp}	34.4 V	34.7 V	34.9 V
Short circuit current	I_{sc}	7.97 A	7.98 A	7.98 A
Maximum power point current	I_{mpp}	7.49 A	7.50 A	7.56 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 / 1500 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

*Please refer to the Sunmodule installation instructions for the details associated with these load cases.

COMPONENT MATERIALS

Cells per module	72
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	Clear anodized aluminum
J-Box	IP65
Connector	PV wire (UL4703) with Amphenol UTX connectors
Module fire performance	(UL 1703) Type 1

DIMENSIONS / WEIGHT

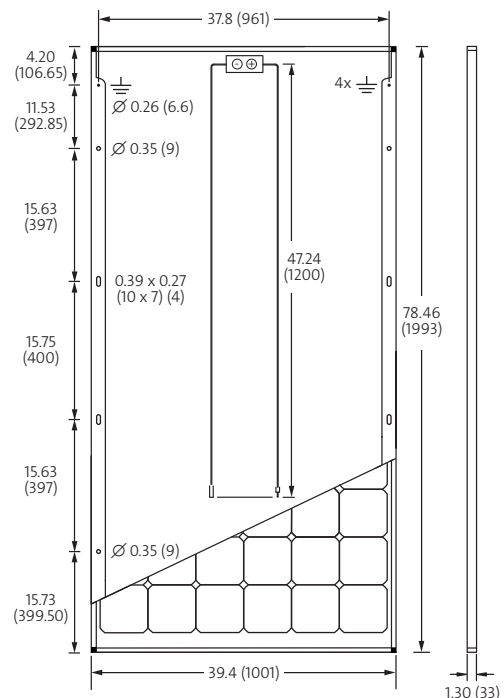
Length	78.46 in (1993 mm)
Width	39.40 in (1001 mm)
Height	1.30 in (33 mm)
Weight	47.6 lb (21.6 kg)

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I_{sc}	0.03 % /C
TC V_{oc}	-0.29 % /C
TC P_{mpp}	-0.42 % /C

ORDERING INFORMATION

Order number	Description
82000664	Sunmodule Plus SW 340 XL mono
82000561	Sunmodule Plus SW 345 XL mono
82000563	Sunmodule Plus SW 350 XL mono



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

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	

*Supplemental warranty coverage available through SolarWorld Assurance™
Warranty Protection Program – www.solarworld.com/assurance