

Sunmodule[®]

SWA 340 - 350 XL MONO



Data sheet



SOLARWORLD ASSURANCE[™]
WARRANTY PROTECTION PROGRAM

POWERING AMERICA FOR MORE THAN 40 YEARS

For over four decades SolarWorld Americas has been creating the highest quality solar cells and panels. Driven by uncompromising standards of quality and reliability, every solar panel we produce demonstrates our commitment to American innovation, manufacturing and sustainability.

- >> Our **Watts+** guarantees our panels will produce at least the minimum advertised nameplate power
- >> **PowAR-TECH[™]** Glass features the industry's best anti-reflective coating, capturing more light and increasing your panels' power
- >> Our patented **INFINITEE[™]** Corners and Frame Technology are press-fit for superior strength and aesthetics and enhanced drainage
- >> By capturing more light, **OPTIGRID[™]** Cell Layout increases lifetime performance while also greatly increasing durability
- >> **Perma-Sil[™]** J-Box sealing encloses critical electrical connections, protecting them against moisture intrusion
- >> With **CoAST** Salt Resistance, installations on islands or near coastal areas are certified against salt corrosion



Sunmodule®

SWA 340 - 350 XL MONO



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SWA 340	SWA 345	SWA 350
Maximum power	P_{max}	340 Wp	345 Wp	350 Wp
Open circuit voltage	V_{oc}	47.6 V	47.8 V	48.0 V
Maximum power point voltage	V_{mpp}	38.0 V	38.2 V	38.4 V
Short circuit current	I_{sc}	9.69 A	9.75 A	9.82 A
Maximum power point current	I_{mpp}	9.01 A	9.10 A	9.17 A
Module efficiency	η_m	17.04 %	17.29 %	17.54 %

Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2%

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SWA 340	SWA 345	SWA 350
Maximum power	P_{max}	259.3 Wp	263.8 Wp	267.2 Wp
Open circuit voltage	V_{oc}	41.5 V	41.8 V	42.0 V
Maximum power point voltage	V_{mpp}	34.9 V	35.2 V	35.4 V
Short circuit current	I_{sc}	8.05 A	8.10 A	8.16 A
Maximum power point current	I_{mpp}	7.42 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	Black anodized aluminum
J-Box	IP65
Connector	PV wire (UL4703) with Amphenol UTX connectors
Module fire performance	(UL 1703) Type 1

DIMENSIONS / WEIGHT

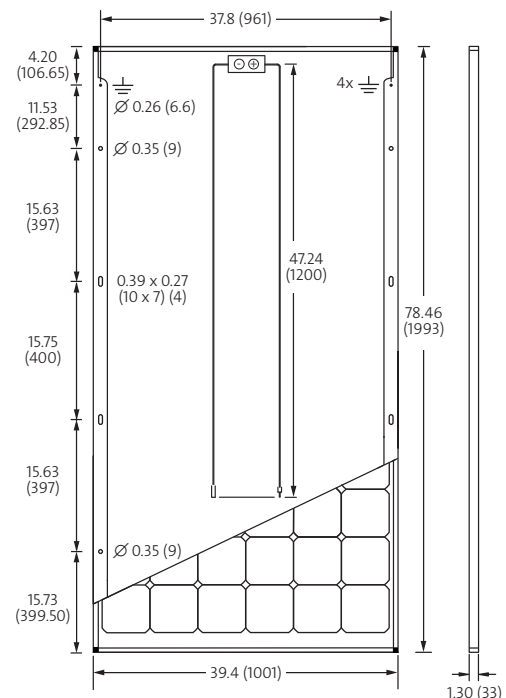
Length	78.46 in (1993 mm)
Width	39.40 in (1001 mm)
Height	1.30 in (33 mm)
Weight	47.6 lb (21.6 kg)

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
82000758	Sunmodule SWA 340 XL mono (black frame)
82000760	Sunmodule SWA 345 XL mono (black frame)
82000762	Sunmodule SWA 350 XL mono (black frame)



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