

Sunmodule® Plus

SWA 290 - 300 MONO



Data sheet



SOLARWORLD ASSURANCE™
WARRANTY PROTECTION PROGRAM

POWERING AMERICAN HOMES 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



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SOLARWORLD
REAL VALUE

		SWA 290	SWA 295	SWA 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	η_m	17.3 %	17.59 %	17.89 %

*STC: 1000W/m², 25°C, AM 1.5

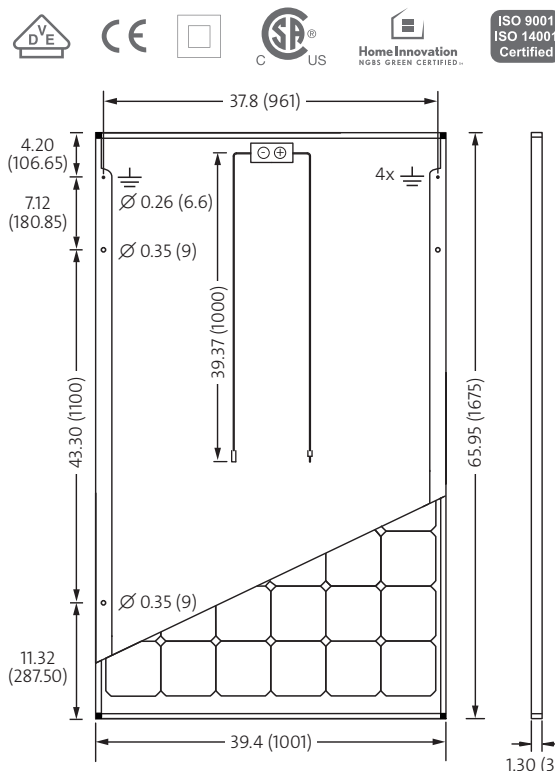
		SWA 290	SWA 295	SWA 300
Maximum power	P _{max}	219.6 Wp	223.6 Wp	226.7 Wp
Open circuit voltage	V _{oc}	36.7 V	36.9 V	37.0 V
Maximum power point voltage	V _{mpp}	29.5 V	29.9 V	30.2 V
Short circuit current	I _{sc}	7.99 A	8.01 A	8.06 A
Maximum power point current	I _{mpn}	7.43 A	7.47 A	7.52 A

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

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

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)

<i>NOCT</i>	46 °C
<i>TC I_{sc}</i>	0.07 % / C
<i>TC V_{oc}</i>	-0.29 % / C
<i>TC P_{mpo}</i>	-0.39 % / C



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

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

SolarWorld Americas Inc. reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380.