

# Sunmodule<sup>®</sup> Pro-Series XL

## SW 310-315 MONO



TUV Power controlled:  
Lowest measuring tolerance in industry



Every component is tested to meet  
3 times IEC requirements



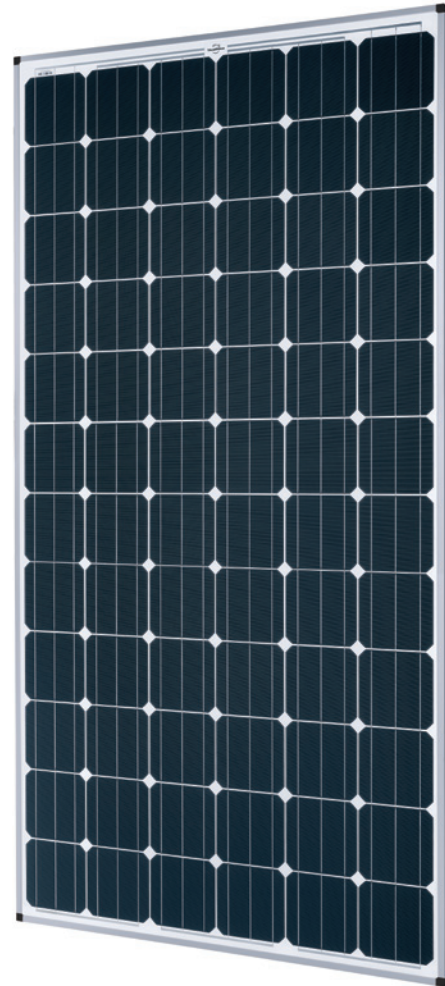
Designed to withstand heavy  
accumulations of snow and ice



Sunmodule Plus:  
Positive performance tolerance



25-year linear performance warranty  
and 10-year product warranty



### World-class quality

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

### SolarWorld Plus-Sorting

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

### 25-year linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance digression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry, along with our industry-first 10-year product warranty.\*

\*in accordance with the applicable SolarWorld Limited Warranty at purchase.  
[www.solarworld.com/warranty](http://www.solarworld.com/warranty)



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection
- Blowing sand resistant



- Ammonia resistance tested
- Periodic Inspection
- Power Controlled



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## SW 310-315 MONO



### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

		SW 310	SW315
Maximum power	$P_{max}$	310 Wp	315 Wp
Open circuit voltage	$V_{oc}$	45.8 V	45.9 V
Maximum power point voltage	$V_{mpp}$	36.6 V	36.8 V
Short circuit current	$I_{sc}$	9.09 A	9.16 A
Maximum power point current	$I_{mpp}$	8.56 A	8.63 A
Module efficiency	$\eta_m$	15.77 %	16.03 %

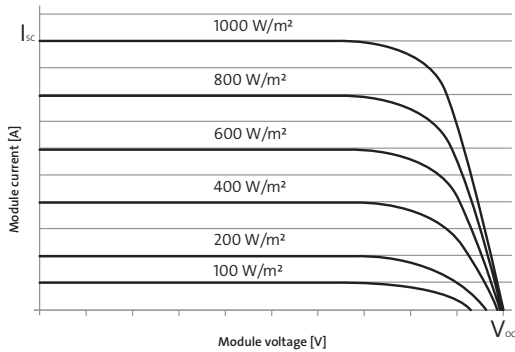
Measuring tolerance ( $P_{max}$ ) traceable to TUV Rheinland: +/-2% (TUV Power controlled)

\*STC: 1000W/m<sup>2</sup>, 25°C, AM 1.5

### PERFORMANCE AT 800 W/M<sup>2</sup>, NOCT, AM 1.5

		SW 310	SW315
Maximum power	$P_{max}$	234 Wp	237 Wp
Open circuit voltage	$V_{oc}$	42.3 V	42.4 V
Maximum power point voltage	$V_{mpp}$	33.8 V	34.0 V
Short circuit current	$I_{sc}$	7.41 A	7.46 A
Maximum power point current	$I_{mpp}$	6.92 A	6.97 A

Minor reduction in efficiency under partial load conditions at 25° C: at 200 W/m<sup>2</sup>, 100% (+/-2%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.



### DIMENSIONS

Length	78.15 in (1985 mm)
Width	38.98 in (990 mm)
Height	1.81 in (46 mm)
Frame	Clear anodized aluminum
Weight	49.6 lbs (22.5 kg)

### COMPONENT MATERIALS

Cells per module	72
Cell type	Mono crystalline
Cell dimensions	156 mm x 156 mm
Front	3.2 mm Tempered glass (EN 12150)

### THERMAL CHARACTERISTICS

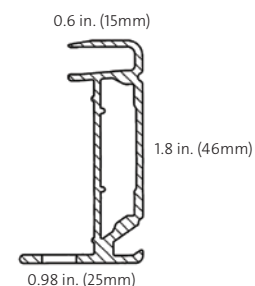
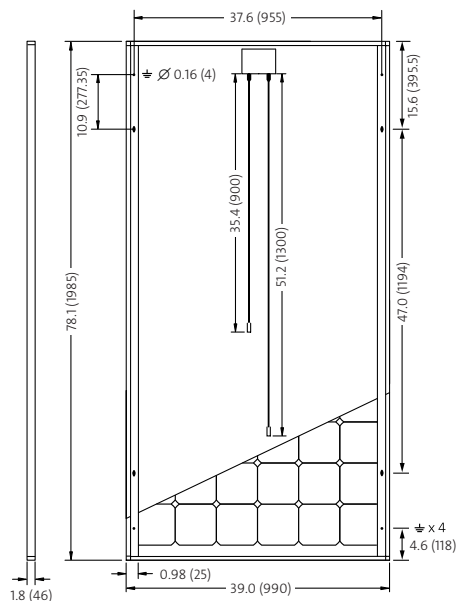
NOCT	46° C
$TCI_{sc}$	0.042 %/K
$TCV_{oc}$	-0.304 %/K
$TCP_{mpp}$	-0.43 %/K

### ADDITIONAL DATA

Power sorting	-0 Wp/+5 Wp
J-Box	IP65
Connector	KSK4
Module fire performance	(UL 1703) Type 1

### PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum system voltage SC II / NEC	1000 V
Maximum reverse current	25 A
Load / dynamic load	113/64 psf (5.4/2.4 kN/m <sup>2</sup> )
Number of bypass diodes	3
Operating range	-40° C to +85° C



All units provided are imperial. SI units provided in parentheses.  
SolarWorld AG reserves the right to make specification changes without notice.

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