

# Sunmodule<sup>®</sup> SW 245 - 255 poly / Pro-Series



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 Pro-Series:  
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 years linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance degradation 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. In addition, SolarWorld is offering a product warranty, which has been extended to 10 years.\*

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



[solarworld.com](http://solarworld.com)

[www.MatrixEnergy.ca](http://www.MatrixEnergy.ca)  
Toll Free: 1-866-630-5630



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



- Ammonia resistance tested
- Periodic Inspection
- Power Controlled



We turn sunlight into power.

# Sunmodule<sup>®</sup> SW 245 - 255 poly / Pro-Series

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

		SW 245	SW 250	SW255
Maximum power	$P_{max}$	245 Wp	250 Wp	255 Wp
Open circuit voltage	$V_{oc}$	37.3 V	37.6 V	38.0 V
Maximum power point voltage	$V_{mpp}$	30.1 V	30.5 V	30.9 V
Short circuit current	$I_{sc}$	8.75 A	8.81 A	8.88 A
Maximum power point current	$I_{mpp}$	8.22 A	8.27 A	8.32 A

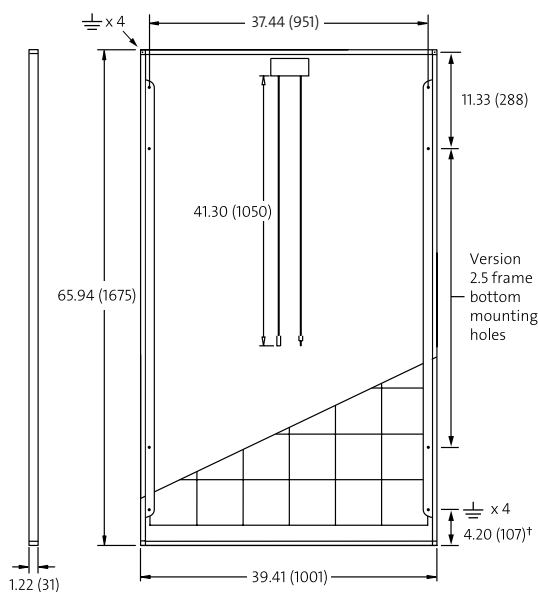
Measuring tolerance ( $P_{max}$ ) traceable to TUV Rheinland: +/-2% (TUV Power controlled)

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

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

		SW 245	SW 250	SW255
Maximum power	$P_{max}$	182.3 Wp	185.4 Wp	188.7 Wp
Open circuit voltage	$V_{oc}$	34.0 V	34.2 V	34.5 V
Maximum power point voltage	$V_{mpp}$	27.4 V	27.8 V	28.1 V
Short circuit current	$I_{sc}$	7.19 A	7.24 A	7.30 A
Maximum power point current	$I_{mpp}$	6.64 A	6.68 A	6.72 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	65.94 in (1675 mm)
Width	39.41 in (1001 mm)
Height	1.22 in (31 mm)
Frame	Clear anodized aluminum
Weight	46.7 lbs (21.2 kg)

### COMPONENT MATERIALS

Cells per module	60
Cell type	Poly crystalline
Cell dimensions	156 mm x 156 mm
Front	Tempered glass (EN 12150)

### THERMAL CHARACTERISTICS

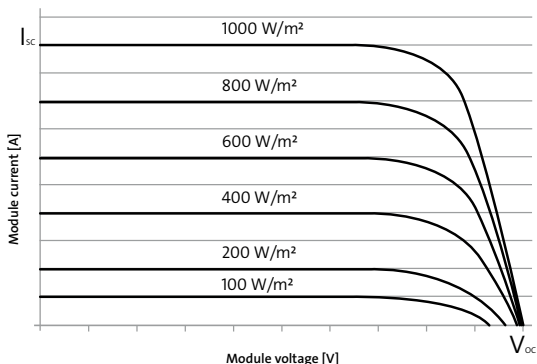
NOCT	46°C
$TCI_{sc}$	0.081%/K
$TCV_{oc}$	-0.37%/K
$TCP_{mpp}$	-0.45%/K

### ADDITIONAL DATA

Power sorting	-0 Wp/+5 Wp
J-Box	IP65
Connector	MC4

### PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum system voltage SC II	1000 V
Maximum reverse current	16 A
Load / dynamic load	5.4/2.4 kN/m <sup>2</sup>
Number of bypass diodes	3
Operating range	-40° C to +85° C



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