

# Sunmodule<sup>+</sup>® SW 240/245/250 poly



Produced in Germany,  
the hotspot for solar technology



TUV Power controlled:  
lowest measuring tolerance in industry



Sunmodule Plus®:  
Positive performance tolerance



25 year linear performance warranty and  
10 year product warranty



SolarWorld AG relies on Germany as its technology location, thereby ensuring sustainable product quality as a solid basis for international competition.

The certification label TUV Rheinland Power Controlled ensures compliance with Sunmodule Plus® module performance specifications as well as regular monitoring by the independent inspection service provider, TUV Rheinland. As a result, deviations from TUV values amount to only 2 percent maximally.

The positive power tolerance guarantees utmost system efficiency. Only modules achieving or exceeding the designated nominal power in performance tests are dispatched. The power tolerance ranges between -0 Wp and +5 Wp.

With its linear performance warranty covering a period of 25 years, SolarWorld guarantees a maximum performance degradation of 0.7% p.a., a significant added value compared to the two-phase warranties common in the industry.



We turn sunlight into power.

# Sunmodule<sup>+</sup> SW 240/245/250 poly

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

		SW 240	SW 245	SW 250
Maximum power	$P_{max}$	240 Wp	245 Wp	250 Wp
Open circuit voltage	$U_{oc}$	37.2 V	37.5 V	37.6 V
Maximum power point voltage	$U_{mpp}$	30.2 V	30.8 V	30.8 V
Short circuit current	$I_{sc}$	8.44 A	8.49 A	8.64 A
Maximum power point current	$I_{mpp}$	7.96 A	7.96 A	8.12 A

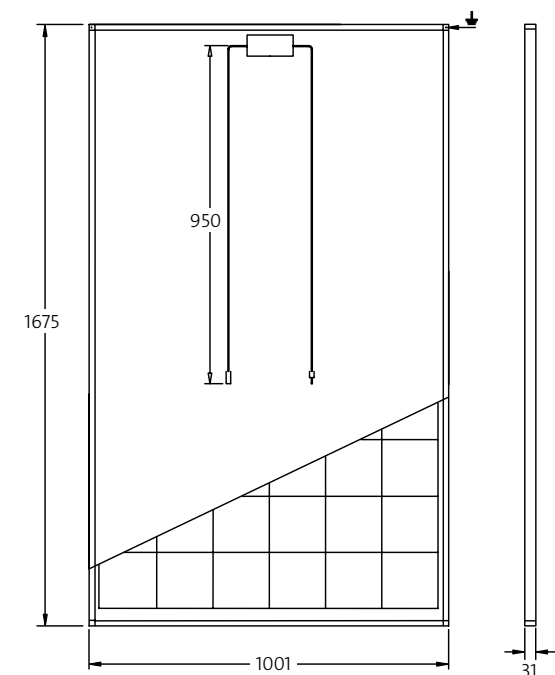
Measuring tolerance ( $P_{max}$ ) traceable to TÜV Rheinland: +/- 2% (TÜV Power controlled)

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

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

		SW 240	SW 245	SW 250
Maximum power	$P_{max}$	174.2 Wp	176.4 Wp	180.4 Wp
Open circuit voltage	$U_{oc}$	33.7 V	33.7 V	33.9 V
Maximum power point voltage	$U_{mpp}$	27.4 V	27.7 V	27.8 V
Short circuit current	$I_{sc}$	6.80 A	6.84 A	6.96 A
Maximum power point current	$I_{mpp}$	6.37 A	6.37 A	6.50 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 95% (+/-2%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.



### DIMENSIONS

Length	1675 mm
Width	1001 mm
Height	31 mm
Frame	Clear anodized aluminum
Weight	21.2 kg

### COMPONENT MATERIALS

Cells per module	60
Cell type	Poly crystalline
Cell dimensions	156 mm x 156 mm
Front	4 mm tempered glass (EN 12150)

### THERMAL CHARACTERISTICS

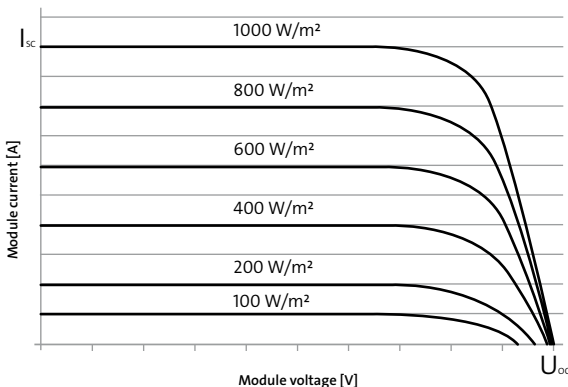
NOCT	46 °C
TC $I_{sc}$	0.081 %/K
TC $U_{oc}$	-0.37 %/K
TC $P_{mpp}$	-0.45 %/K

### ADDITIONAL DATA

Power sorting	-0 Wp / +5 Wp
J-Box	IP65
Connector	MC4 / KSK4

### 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



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection
- Power Controlled



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

1) Depending on the market.