



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



# Sunmodule<sup>+</sup>

## SW 240/245/250 mono black

### Attractive design

The homogeneous black surface and black module frames create a visual elegance which fulfils even the most demanding requirements in terms of design and architecture.

### German quality standards

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.

### TUV "Power controlled"

With the new TUV Rheinland test "Power controlled" it is guaranteed that the performance indicated for a Sunmodule Plus solar panel is being met and that it is regularly monitored by the independent test service provider, TUV Rheinland. This additional security for investors and consumers is a further testament of SolarWorld's commitment to comprehensive quality assurance.

### SolarWorld Plus-sorting

Plus-sorting guarantees the highest system efficiency. Only modules that achieve the designated nominal performance or greater in performance tests are dispatched.

### 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)



### 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	$U_{oc}$	37.6 V	37.7 V	37.8 V
Maximum power point voltage	$U_{mpp}$	30.6 V	30.8 V	31.1 V
Short circuit current	$I_{sc}$	8.22 A	8.25 A	8.28 A
Maximum power point current	$I_{mpp}$	7.87 A	7.96 A	8.05 A

\*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	$P_{max}$	175.4 Wp	179.1 Wp	183.3 Wp
Open circuit voltage	$U_{oc}$	34.2 V	34.4 V	34.6 V
Maximum power point voltage	$U_{mpp}$	27.9 V	28.1 V	28.5 V
Short circuit current	$I_{sc}$	6.63 A	6.65 A	6.68 A
Maximum power point current	$I_{mpp}$	6.30 A	6.37 A	6.44 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 95% (+/-3%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### COMPONENT MATERIALS

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

### SYSTEM INTEGRATION PARAMETERS

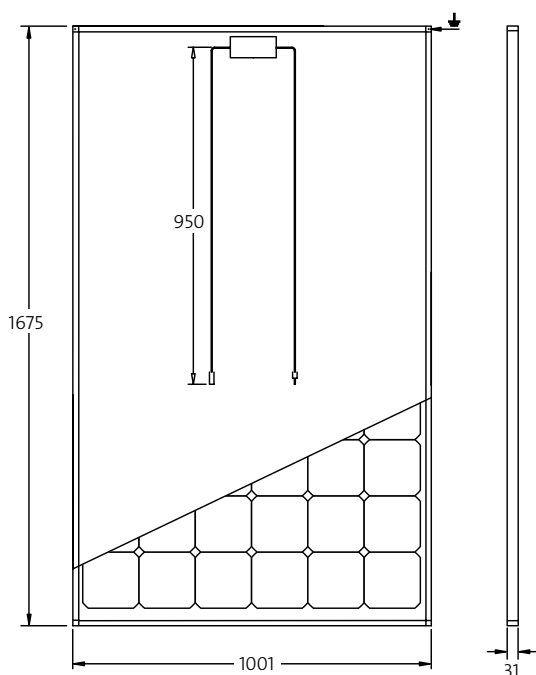
Maximum system voltage SC II	1000 V
Maximum reverse current	16 A
Increased snowload acc. to IEC 61215	5.4 kN/m <sup>2</sup>
Number of bypass diodes	3

### THERMAL CHARACTERISTICS

NOCT	48 °C
TC $I_{sc}$	0.004 %/K
TC $U_{oc}$	-0.30 %/K
TC $P_{mpp}$	-0.45 %/K

### ADDITIONAL DATA

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



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



1) Depending on the market.  
 Measuring tolerance ( $P_{max}$ ) traceable to TÜV Rheinland: +/- 2% (TÜV Power controlled)  
 SolarWorld AG reserves the right to make specification changes without notice.  
 This data sheet complies with the requirements of EN 50380.