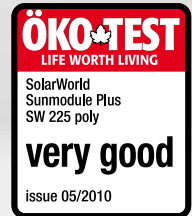


**NEW! 25-YEAR LINEAR  
PERFORMANCE AND  
PRODUCT WARRANTY  
EXTENDED TO 5 YEARS\***

**Length** 65.94 in (1675 mm)  
**Width** 39.41 in (1001 mm)  
**Height** 1.22 in (31 mm)<sup>1)</sup>  
**Frame** Aluminum  
**Weight** 46.7 lbs (21,2 kg)



## Sunmodule<sup>+</sup> SW 235/240 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.

### Outstanding products

SolarWorld modules have received top marks in numerous independent performance tests:

In Photon test laboratory's endurance test SolarWorld's modules occupied first place in 2008 and in 2009 and were assessed by the ÖKO-TEST consumer magazine as "very good".

### 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\*

SolarWorld guarantees a maximum degeneration in performance of 0.7% p.a. for more than 25 years - a clear additional benefit compared with the conventional two-stage industry guarantees. In addition there is a product warranty that covers 5 years.

\*in accordance with the applicable SolarWorld service certificate at purchase  
[www.solarworld-global.com/service-certificate](http://www.solarworld-global.com/service-certificate)



**We turn sunlight into power.**

[www.solarworld-usa.com](http://www.solarworld-usa.com)

# Sunmodule<sup>+</sup>

## SW 235/240 mono black

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

		SW 235	SW 240
Maximum power	$P_{max}$	235 Wp	240 Wp
Open circuit voltage	$U_{oc}$	37.5 V	37.7 V
Maximum power point voltage	$U_{mpp}$	30.3 V	30.8 V
Short circuit current	$I_{sc}$	8.19 A	8.25 A
Maximum power point current	$I_{mpp}$	7.77 A	7.96 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 235	SW 240
Maximum power	$P_{max}$	170.9 Wp	179.1 Wp
Open circuit voltage	$U_{oc}$	34.0 V	34.4 V
Maximum power point voltage	$U_{mpp}$	27.5 V	28.1 V
Short circuit current	$I_{sc}$	6.60 A	6.65 A
Maximum power point current	$I_{mpp}$	6.22 A	6.37 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/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

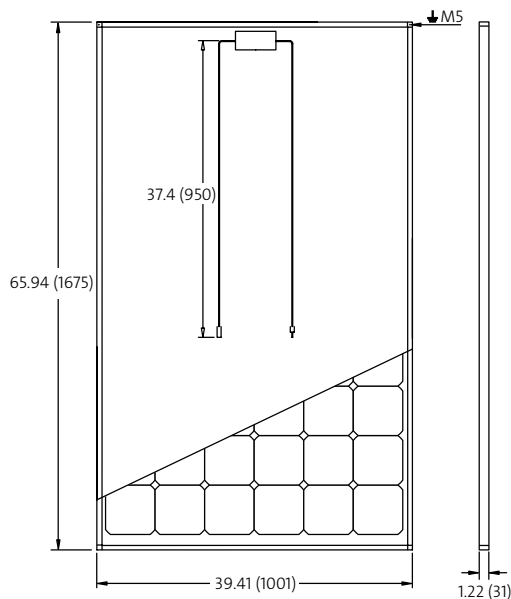
Maximum system voltage SC II	1000 V
Maximum system voltage USA NEC	600 V
Maximum reverse current	16 A
Increased snowload acc. to IEC 61215	5.4 kN/m <sup>2</sup>
Number of bypass diodes	3

### THERMAL CHARACTERISTICS

NOCT	47 °C
TC $I_{sc}$	0.042 %/K
TC $U_{oc}$	-0.33 %/K
TC $P_{mpp}$	-0.45 %/K

### ADDITIONAL DATA

Measuring tolerance	+/- 3 %
Junction box	IP65
Connector	MC4
SolarWorld Plus-Sorting <sup>2)</sup>	$P_{Flash} \geq P_{max}$



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



3)



- 1) Temporarily, also modules with a frame height of 34 mm can be supplied. Please inquire with your specialist dealer.
- 2) The output identified by SolarWorld ( $P_{Flash}$ ) is always higher than the nominal output ( $P_{max}$ ) of the module.
- 3) depending on the market  
SolarWorld AG reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380.