



NEW! 25 YEAR LINEAR
PERFORMANCE WARRANTY AND
A PRODUCT WORKMANSHIP
WARRANTY OF 10 YEARS*

Length	1675 mm
Width	1001 mm
Height	31 mm
Frame	Aluminum
Weight	21,2 kg



Sunmodule⁺

SW 230/235/240/245/250 poly

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



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 230	SW 235	SW 240	SW 245	SW 250
Maximum power	P_{max}	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp
Open circuit voltage	U_{oc}	36,9 V	37,0 V	37,2 V	37,5 V	37,6 V
Maximum power point voltage	U_{mpp}	29,8 V	30,0 V	30,2 V	30,8 V	30,8 V
Short circuit current	I_{sc}	8,25 A	8,35 A	8,44 A	8,49 A	8,64 A
Maximum power point current	I_{mpp}	7,72 A	7,85 A	7,96 A	7,96 A	8,12 A

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 230	SW 235	SW 240	SW 245	SW 250
Maximum power	P_{max}	164,4 Wp	170,4 Wp	174,2 Wp	176,4 Wp	180,4 Wp
Open circuit voltage	U_{oc}	33,4 V	33,5 V	33,7 V	33,7 V	33,9 V
Maximum power point voltage	U_{mpp}	26,7 V	27,1 V	27,4 V	27,7 V	27,8 V
Short circuit current	I_{sc}	6,82 A	6,73 A	6,80 A	6,84 A	6,96 A
Maximum power point current	I_{mpp}	6,15 A	6,28 A	6,37 A	6,37 A	6,50 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/m², 95% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.

COMPONENT MATERIALS

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

SYSTEM INTEGRATION PARAMETERS

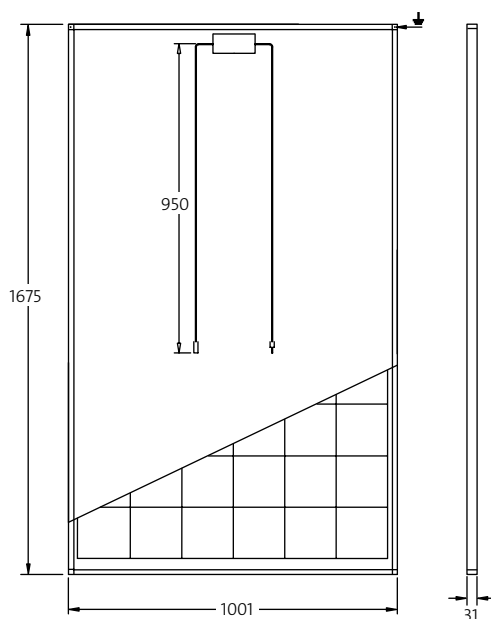
Maximum system voltage SC II	1000 V
Maximum reverse current	16 A
Increased snowload acc. to IEC 61215	5,4 kN/m ²
Number of bypass diodes	3

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I_{sc}	0,034 %/K
TC U_{oc}	-0,34 %/K
TC P_{mpp}	-0,48 %/K

ADDITIONAL DATA

Measuring tolerance	+/- 3 %
J-Box	IP65
Connector	MC4
SolarWorld Plus-Sorting ¹⁾	$P_{Flash} \geq P_{max}$



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



- 1) The output identified by SolarWorld (P_{Flash}) is always higher than the nominal output (P_{max}) of the module.
- 2) 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.