Sunmodule^{*} Plus SW 250 mono black



Data Sheet



Produced in Germany, the center for solar technology



TUV Power controlled: Lowest measuring tolerance in industry

www.tuv.com ID 0000039351



Sunmodule Plus: Positive performance tolerance



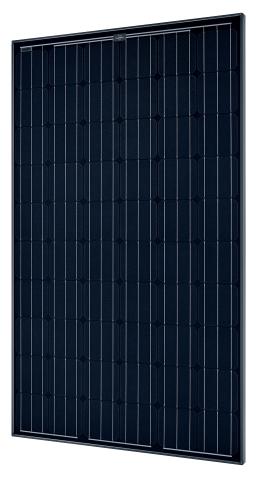
25 year linear performance warranty and 10 year product warranty

SolarWorld AG relies on Germany as its technology location, thereby ensuring sustainable product quality.

The TUV Rheinland Power controlled inspection mark guarantees that the nominal power indicated for solar modules is inspected at regular intervals and thus ensured. The deviation to TUV is maximum 2 percent.

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 degression of 0.7% p.a., a significant added value compared to the two-phase warranties common in the industry. Therefore, the service certificate offers comprehensive protection for your investment in the long term.



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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 250	
Maximum power	P _{max}	250 Wp	
Open circuit voltage	U _{oc}	37.8 V	
Maximum power point voltage	U _{mpp}	31.1 V	
Short circuit current	l sc	8.28 A	
Maximum power point current	I mpp	8.05 A	
Module efficiency	η _m	14.91 %	

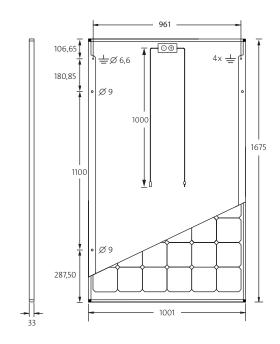
Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power controlled)

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 250	
Maximum power	P _{max}	183.3 Wp	
Open circuit voltage	U _{oc}	34.6 V	
Maximum power point voltage	U _{mpp}	28.5 V	
Short circuit current	l _{sc}	6.68 A	
Maximum power point current	l _{mpp}	6.44 A	

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% (+/-2%) of the STC efficiency (1000 W/m²) is achieved.



DIMENSIONS

DIMENSIO	NS	COMPONENT MATERIALS	
Length	1675 mm	Cells per module	
Width	1001 mm	Cell type	Mor
Height	33 mm	Cell dimensions	156 n
Frame	Black anodized aluminum	Front	tei
Weight	18.0 kg		
THERMAL	CHARACTERISTICS	ADDITIONAL DATA	
NOCT	48 °C	Power sorting	-(
TC I _{sc}	0.044 %/K	J-Box	
TC U _{oc}	-0.31 %/K	Connector	
TC P	-0.43 %/K		

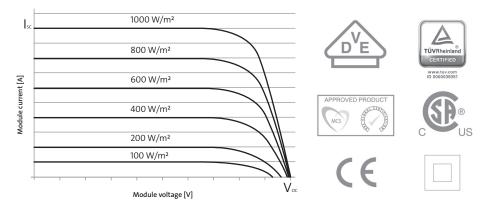
l type	Mono crystalline
l dimensions	156 mm x 156 mm
nt	tempered glass (EN 12150)

60

48 °C	Power sorting	-0 Wp / +5 Wp
0.044 %/K	J-Box	IP65
-0.31%/K	Connector	H4
-0.43 %/K		

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Maximum system voltage SC II	1000 V
Maximum reverse current	25 A
Load / dynamic load	5.4 / 2.4 kN/m²
Number of bypass diodes	3
Operating range	-40 °C to +85 °C



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