

Sunmodule[®] Protect

SW 260 mono black



Data Sheet



Produced in Germany,
the center for solar technology



www.tuv.com
ID 0000039351

TUV Power controlled:
Lowest measuring tolerance in industry



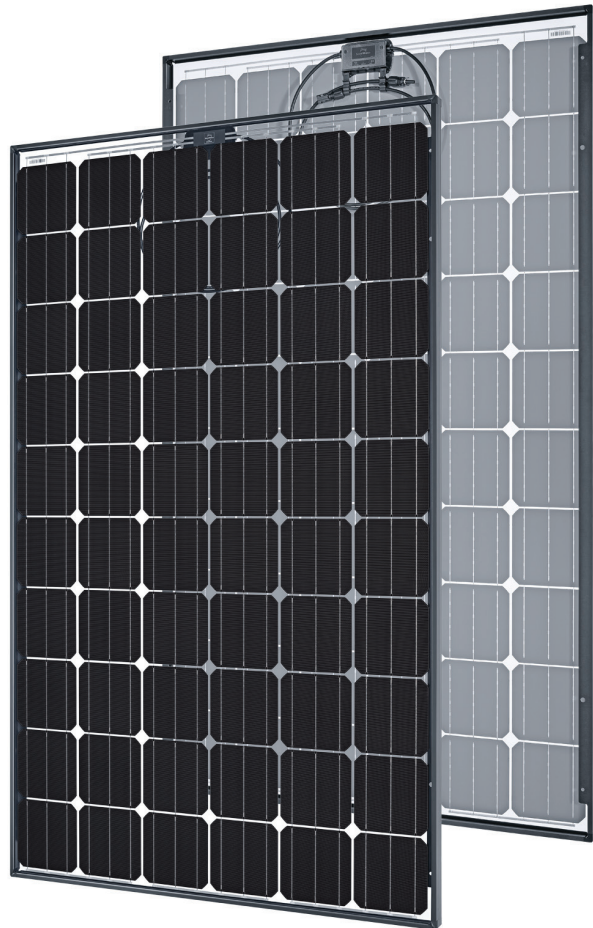
Above average weather-resistance and
robustness



Sunmodule Bisun:
Positive performance tolerance



30 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.

Innovative glass technologies on front- and backside make extremely weather-resistant and robust solar modules possible. The Sunmodule Protect offers higher mechanical resilience and a longer service life.

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.

SolarWorld is setting new standards with the groundbreaking 30-year linear performance guarantee: a maximum degradation of just 0.35% p.a. provides guaranteed module performance of 90% after 21 years, and 86.85% after 30 years.

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PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 260
Maximum power	P_{max}	260 Wp
Open circuit voltage	U_{oc}	38.9 V
Maximum power point voltage	U_{mpp}	30.7 V
Short circuit current	I_{sc}	9.18 A
Maximum power point current	I_{mpp}	8.56 A
Module efficiency	η_m	15.51 %

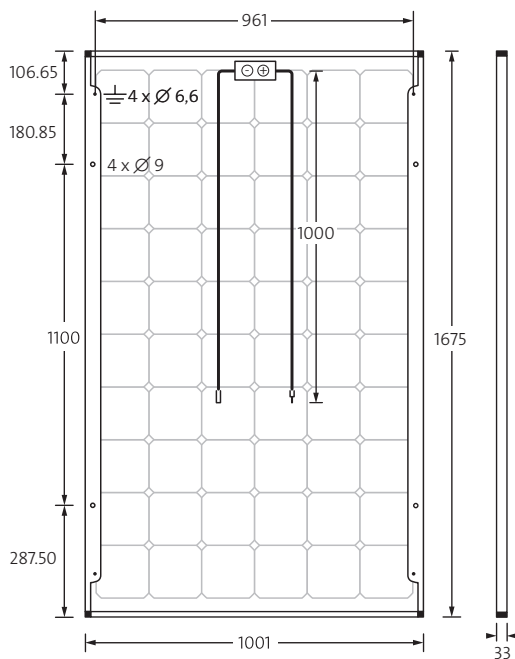
Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power controlled)

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 260
Maximum power	P_{max}	192.3 Wp
Open circuit voltage	U_{oc}	35.2 V
Maximum power point voltage	U_{mpp}	27.8 V
Short circuit current	I_{sc}	7.42 A
Maximum power point current	I_{mpp}	6.92 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 97% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.



COMPONENT MATERIALS

Cells per module	60
Cell type	Mono crystalline
Cell dimensions	156 mm x 156 mm
Front	Heat strengthened glass (EN 1863-1)
Back	Heat strengthened glass (EN 1863-1)
Frame	black anodized aluminum
J-Box	IP65
Connector	H4

DIMENSIONS / WEIGHT

Length	1675 mm
Width	1001 mm
Height	33 mm
Weight	21,5 kg

THERMAL CHARACTERISTICS

NOCT	48 °C
TC I_{sc}	0,044 %/K
TC U_{oc}	-0,31 %/K
TC P_{mpp}	-0,43 %/K

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

Power sorting	-0 Wp / +5 Wp
Maximum system voltage SC II	1000 V
Maximum reverse current	25 A
Load / dynamic load	5,4 / 2,4 kN/m ²
Number of bypass diodes	3
Operating range	-40 °C bis +85 °C



ORDERING INFORMATION

Order number	Description
82000100	Sunmodule Protect SW 260 mono black