## Sunmodule Plus SW 280 mono black



Data Sheet



Produced in Germany, the center for solar technology



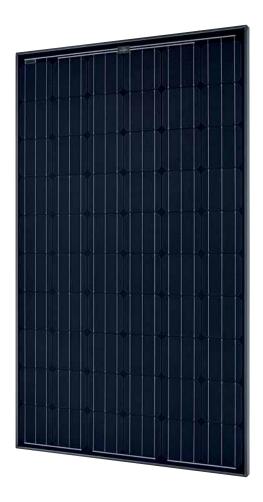
TUV Power controlled: Lowest measuring tolerance in industry



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.

# Sunmodule Plus SW 280 mono black



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

		SW 280	
Maximum power	$P_{\text{max}}$	280 Wp	
Open circuit voltage	U <sub>oc</sub>	39.5 V	
Maximum power point voltage	U <sub>mpp</sub>	31.2 V	
Short circuit current	I <sub>sc</sub>	9.71 A	
Maximum power point current	l <sub>mpp</sub>	9.07 A	

Measuring tolerance (P  $_{\scriptsize max}$  ) traceable to TUV Rheinland: +/- 2% (TUV Power controlled)

\*STC: 1000W/m<sup>2</sup>, 25°C, AM 1.5

#### PERFORMANCE AT 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 280	
Maximum power	P <sub>max</sub>	207.2 Wp	
Open circuit voltage	U <sub>oc</sub>	35.8 V	
Maximum power point voltage	U <sub>mpp</sub>	28.3 V	
Short circuit current	sc	7.85 A	
Maximum power point current	Impp	7.33 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.

### 961 106,65 180,85 1000 1000 1000 1000 1000 1000

#### **DIMENSIONS**

Weight	18.0 kg
Frame	Black anodized aluminum
Height	33 mm
Width	1001 mm
Length	1675 mm

#### THERMAL CHARACTERISTICS

48 °C
0.044 %/K
-0.31 %/K
-0.43 %/K

#### **COMPONENT MATERIALS**

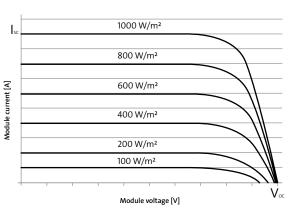
Cells per module	60
Cell type	Mono crystalline
Cell dimensions	156 mm x 156 mm
Front	tempered glass (EN 12150)

#### ADDITIONAL DATA

-0 Wp / +5 Wp	
IP65	
H4	

#### 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.