



**NEW!** 25 YEAR LINEAR  
PERFORMANCE WARRANTY AND  
A PRODUCT WORKMANSHIP  
WARRANTY OF 5 YEARS\*

Length 1675 mm  
Width 682 mm  
Height 31 mm  
Frame Aluminum  
Weight 13 kg



# Sunmodule<sup>+</sup>

## SW 145/150/155 Compact mono black

### Attractive design and flexible utilization

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. In addition, the compact dimensions ensure easy handling and enable flexible application in varying construction situations.

### 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. tests are shipped.

### 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.



**We turn sunlight into power.**

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

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

		SW 145	SW 150	SW 155
Maximum power	$P_{max}$	145 Wp	150 Wp	155 Wp
Open circuit voltage	$U_{oc}$	24,8 V	24,9 V	25,0 V
Maximum power point voltage	$U_{mpp}$	19,5 V	19,8 V	20,1 V
Short circuit current	$I_{sc}$	8,09 A	8,13 A	8,18 A
Maximum power point current	$I_{mpp}$	7,45 A	7,59 A	7,72 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 145	SW 150	SW 155
Maximum power	$P_{max}$	104,4 Wp	108,5 Wp	112,6 Wp
Open circuit voltage	$U_{oc}$	22,3 V	22,5 V	22,7 V
Maximum power point voltage	$U_{mpp}$	17,4 V	17,9 V	18,3 V
Short circuit current	$I_{sc}$	6,54 A	6,56 A	6,58 A
Maximum power point current	$I_{mpp}$	6,00 A	6,07 A	6,14 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	40
Cell type	Mono crystalline
Cell dimensions	156 mm x 156 mm
Front	tempered glass (EN 12150)

### SYSTEM INTEGRATION PARAMETERS

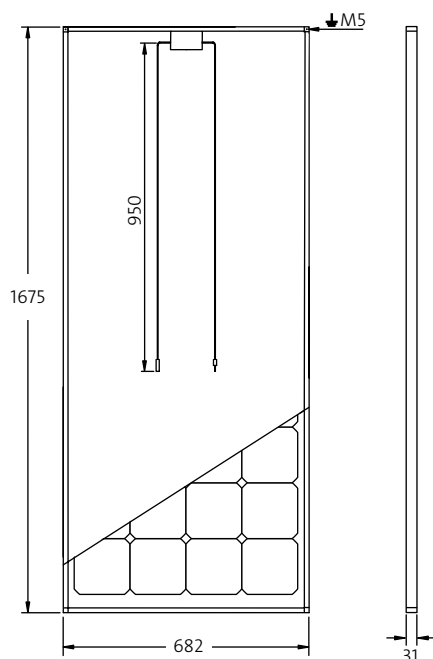
Maximum system voltage SC II	1000 V
Maximum reverse current	16 A
Increased snowload acc. to IEC 61215	5,4 kN/m <sup>2</sup>
Number of bypass diodes	2

### 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>1)</sup>	$P_{Flash} \geq P_{max}$



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



- 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.