



**Sunmodule<sup>+</sup>**

## SW 160/165/170/175/180/185 mono

The Sunmodule Plus heralds an innovative new module concept from SolarWorld. The Plus-sort (based on a SolarWorld flash report) and five watt model stepping ensures true, highest system efficiency and dispenses with the time-consuming task of sorting the modules on site. The fully automated production process at the SolarWorld factories creates a module quality that is consistently high, which in turn will ensure high yields for the long term.

The glass is set deep into the module frame and they are firmly attached to each other by silicone that is applied with continuous precision. This guarantees exceptional rigidity for the entire module and stops any possible loosening of the frame as a result of strong outward forces in cases such as sliding of heavy snow. Tests carried out in accordance with IEC 61215, applying loads up to 5.4 kN/m<sup>2</sup>, confirm that the module can withstand high loads such as heavy accumulations of snow and ice.

The patented, flat and compact junction box provides perfect protection against corrosion, as well as a capacity to rapidly dissipate any excess heat providing lower operating temperature. The junction box is reliably connected by a solid, welded bond to guarantee lasting functionality. In addition, high-quality, robust cables with factory-equipped connectors are used. The ability to recycle the modules and a 25-year performance warranty are the finishing touches to this top-quality product.

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## SW 160/165/170/175/180/185 mono

### Performance under standard test conditions

		SW 160	SW 165	SW 170	SW 175	SW 180	SW 185
Maximum power	$P_{max}$	160 Wp	165 Wp	170 Wp	175 Wp	180 Wp	185 Wp
Open circuit voltage	$V_{oc}$	43.8 V	44.0 V	44.2 V	44.4 V	44.6 V	44.8 V
Maximum power point voltage	$V_{mpp}$	35.0 V	35.3 V	35.5 V	35.8 V	36.0 V	36.3 V
Short circuit current	$I_{sc}$	5.00 A	5.10 A	5.20 A	5.30 A	5.40 A	5.50 A
Maximum power point current	$I_{mpp}$	4.58 A	4.68 A	4.79 A	4.89 A	5.01 A	5.10 A

### Performance at 800 W/m<sup>2</sup>, NOCT, AM 1.5

		SW 160	SW 165	SW 170	SW 175	SW 180	SW 185
Maximum power	$P_{max}$	114.4 Wp	118.0 Wp	121.5 Wp	125.1 Wp	128.7 Wp	132.3 Wp
Open circuit voltage	$V_{oc}$	39.6 V	39.8 V	40.0 V	40.2 V	40.4 V	40.5 V
Maximum power point voltage	$V_{mpp}$	31.4 V	31.6 V	31.9 V	32.1 V	32.3 V	32.5 V
Short circuit current	$I_{sc}$	4.13 A	4.22 A	4.30 A	4.38 A	4.46 A	4.55 A
Maximum power point current	$I_{mpp}$	3.64 A	3.73 A	3.81 A	3.90 A	3.98 A	4.06 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m<sup>2</sup>, 95% (+/- 3%) of the STC efficiency (1000 W/m<sup>2</sup>) is achieved.

### Component materials

Cells per module	72
Cell type	monocrystalline silicon
Cell dimensions	125 x 125 mm <sup>2</sup>

### System integration parameters

Maximum system voltage SC II	1,000 V <sub>DC</sub>
Maximum reverse current	Do not apply external voltages larger than V <sub>oc</sub> to the module

### Thermal characteristics

NOCT	46°C
TC I <sub>sc</sub>	0.036 %/K
TC V <sub>oc</sub>	-0.33 %/K

### Additional data

Power tolerance	+/- 3%
Junction box	IP 65
Connector	MC type 4

