Length1675 mmWidth1001 mmHeight34 mmFrameAluminumWeight22 kg

Sunmodule[®] SW 230/235/240 poly

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/m², 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.

* 25-year performance warranty in accordance with the SolarWorld service certificate applicable at the time of purchase.



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Sunmodule^{*} SW 230/235/240 poly

Performance under standard test conditions (STC*)

		SW 230	SW 235	SW 240
Maximum power	P _{max}	230 Wp	235 Wp	240 Wp
Open circuit voltage	V _{oc}	36.9 V	37.0 V	37.2 V
Maximum power point voltage	V _{mpp}	29.8 V	30.0 V	30.2 V
Short circuit current	I _{sc}	8.25 A	8.35 A	8.44 A
Maximum power point current	I _{mpp}	7.72 A	7.85 A	7.96 A

*STC: 1000W/m², 25°C, AM 1.5

Component materials	
Cells per module	60
Cell type	polycrystalline silicon

Cell dimensions

Thermal characteristics

NOCT	
TC I _{sc}	
TC V _{oc}	



Performance at 800 W/m², NOCT, AM 1.5

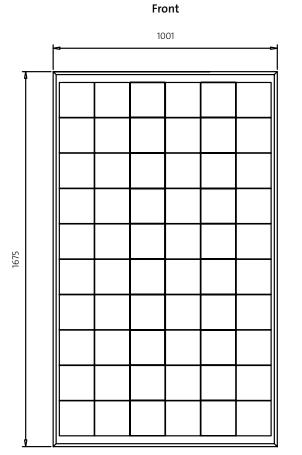
		SW 230	SW 235	SW 240
Maximum power	P _{max}	164.4 Wp	170.4 Wp	174.2 Wp
Open circuit voltage	V _{oc}	33.4 V	33.5 V	33.7 V
Maximum power point voltage	V _{mpp}	26.7 V	27.1 V	27.4 V
Short circuit current	I _{sc}	6.82 A	6.73 A	6.80 A
Maximum power point current	I _{mpp}	6.15 A	6.28 A	6.37 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 95% (+/- 5%) of the STC efficiency (1000 W/m²) is achieved.

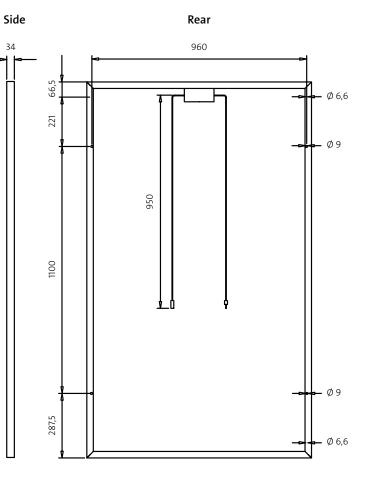
System integration parameters

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Maximum system voltage SC II Maximum reverse current	1000 V _{DC} Do not apply external voltages larger than V _{OC} to the module
Additional data	
Power tolerance	+/- 3 %
Junction box	IP 65
Connector	MC type 4



Dimensions in mm



Construction

3 2

1

- 1] Front: tempered glass
- 2] crystalline solar cells embedded in EVA (ethylene-vinyl-acetate)
- 3] Rear: Multilayer

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



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