

Sunmodule⁺

SW 220/225/230/235 mono

High-quality, high performance, and high reliability – the Sunmodule Plus[®] is designed and built for long-term yield stability and ease of use.

Every module is factory flashed at standard test conditions (STC) to determine the power output and then sorted in 5 watt increments. Only modules with a flashed power that is greater than or equal to the nameplate rated power are delivered. Flash report data is provided with every order.

The proven design of the patented low profile Sunbox junction box, has been installed on over 4,000,000 modules. Integrated by-pass diodes and sealed welded connections ensure reliability and eliminate failures resulting from exposure to the elements. The molded fins on the exterior housing dissipate heat quickly to maximize power output.

The patented box channel frame design provides extraordinary stiffness in bending and torsion. The laminate with 4mm glass is set deep in the frame channel and secured with precision applied adhesive. The frame is assembled by press fit to maximize strength and longevity. The result is an extremely robust package that can be mounted in any orientation and can withstand static loads of up to 113 psf.

SolarWorld provides a 5-year workmanship warranty* and 25-year linear performance guarantee*

*See warranty statement for details.



We turn sunlight into power.

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Performance under standard test conditions (STC*)

		SW 220	SW 225	SW 230	SW 235
Maximum power	P_{max}	220 Wp	225 Wp	230 Wp	235 Wp
Open circuit voltage	V_{oc}	37.2 V	37.3 V	37.4 V	37.5 V
Maximum power point voltage	V_{mpp}	29.4 V	29.7 V	30 V	30.3 V
Short circuit current	I_{sc}	8.10 A	8.13 A	8.16 A	8.19 A
Maximum power point current	I_{mpp}	7.50 A	7.59 A	7.68 A	7.77 A

*STC: 1000W/m², 25°C, AM 1.5

Performance at 800 W/m², NOCT, AM 1.5

		SW 220	SW 225	SW 230	SW 235
Maximum power	P_{max}	159 Wp	163 Wp	167 Wp	171 Wp
Open circuit voltage	V_{oc}	33.5 V	33.7 V	33.9 V	34 V
Maximum power point voltage	V_{mpp}	26.5 V	26.8 V	27.2 V	27.5 V
Short circuit current	I_{sc}	6.53 A	6.56 A	6.58 A	6.60 A
Maximum power point current	I_{mpp}	6.00 A	6.07 A	6.14 A	6.22 A

Minor reduction in efficiency under partial load conditions at 25°C: at 220 W/m², 95% (+/- 3%) of the STC efficiency (1000 W/m²) is achieved.

Component materials

Cells per module	60
Cell type	monocrystalline silicon
Cell dimensions	156 x 156 mm ²

System integration parameters

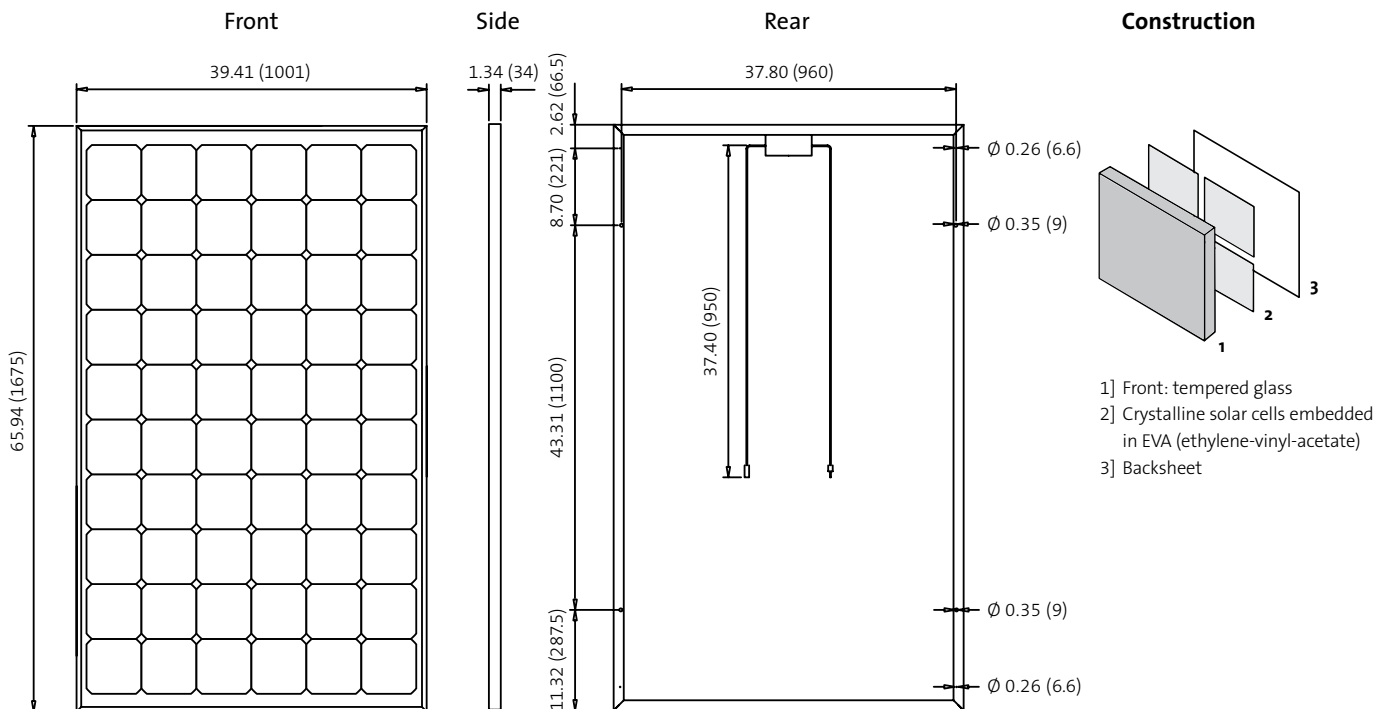
Maximum system voltage SC II	1000 V _{DC}
Maximum system voltage USA NEC	600 V _{DC}
Maximum series fuse rating	15 A
Maximum reverse current	Do not apply external voltages larger than V _{oc} to the module

Thermal characteristics

NOCT	46°C
TC I _{sc}	0.042 %/K
TC V _{oc}	-0.33 %/K
TC P _{max}	-0.45 %/K

Additional data

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



Dimensions: inches (mm)