

Sunmodule⁺™

SW 225 poly

Version 2.0 and 2.5 Frame



WORLD CLASS QUALITY

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.



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.



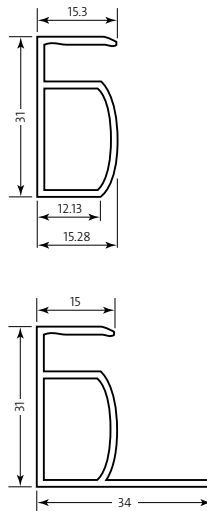
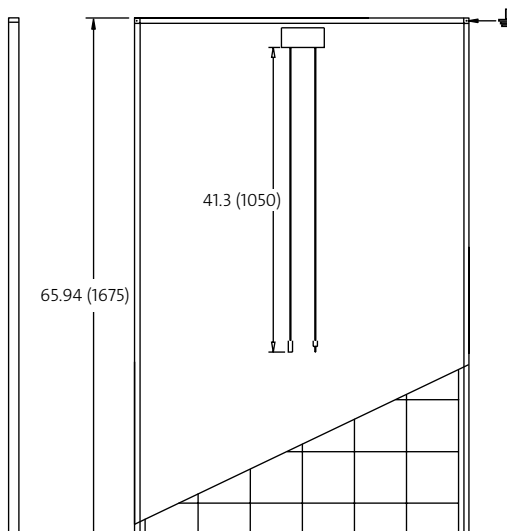
25 YEARS LINEAR PERFORMANCE GUARANTEE*

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 workmanship warranty that covers 5 years.



PHYSICAL CHARACTERISTICS

Cells per module	60	Frame	Anodized aluminum
Cell type	Poly crystalline	Weight	46.7 lbs (21.2 kg)
Cell dimensions	6.14 in x 6.14 in (156 mm x 156 mm)	UL Maximum Test Load**	50 psf (2.4kN/m ²)
Front	Tempered glass (EN 12150)	IEC Maximum Snow Test Load***	113 psf (5.4kN/m ²)



VERSION 2.0 FRAME

- Compatible with “Top-Down” mounting methods
- Grounding Locations: 4 corners of the frame

VERSION 2.5 FRAME

- Compatible with both “Top-Down” and “Bottom” mounting methods
- Grounding Locations:
 - 4 corners of the frame
 - 4 locations along the length of the module in the extended flange†

* In accordance with the applicable SolarWorld Limited Warranty at purchase. www.solarworld-global.com/service-certificate.

** Please apply the appropriate factors of safety according to the test standard and local building code requirements when designing a PV system.

SW 225 poly

Version 2.0 and 2.5 Frame

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 225
Maximum power	P_{max}	225 Wp
Open circuit voltage	U_{OC}	36.8 V
Maximum power point voltage	U_{MPP}	29.5 V
Short circuit current	I_{SC}	8.17 A
Maximum power point current	I_{MPP}	7.63 A

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 225
Maximum power	P_{max}	160.9 Wp
Open circuit voltage	U_{OC}	33.3 V
Maximum power point voltage	U_{MPP}	26.5 V
Short circuit current	I_{SC}	6.75 A
Maximum power point current	I_{MPP}	6.08 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 95% (+/-3%) of the STC efficiency (1000 W/m²) is achieved.

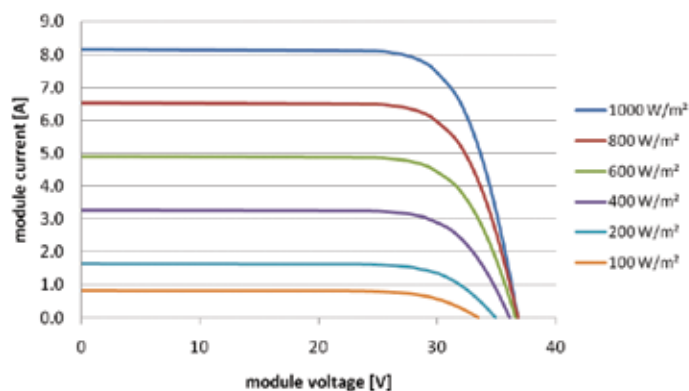
THERMAL CHARACTERISTICS

NOCT	46° C
TC I_{sc}	0.034 %/K
TC U_{oc}	-0.34 %
TC P_{mpp}	-0.48%
Operating range	-40°C to 90°C

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II	1000 V
Maximum system voltage USA NEC	600 V
Maximum series fuse rating	16 A
Number of bypass diodes	3

I-V CURVE AT 25°C CELL TEMPERATURE



ADDITIONAL DATA

Measuring tolerance	+/- 3%
SolarWorld Plus-Sorting ¹⁾	$P_{Flash} \geq P_{max}$
Junction box	IP65
Connector	MC4
Module efficiency	13.42%
Fire rating (UL 790)	Class C

GROUNDING

We recommend using the following components:

FRAME 2.0/2.5 (CORNERS)

Item	Manufacturer/Description	Tightening torque
Grounding lug	ILsco GBL-4DBT	35 lbf-in, 4-6 AWG str 25 lbf-in, 8 AWG str 20 lbf-in, 10-14 AWG sol/ str
Socket head cap screw	#10-24, 5/8", SS 18-8	62 lbf-in (7.0 Nm)

FRAME 2.5 (FLANGE)

Item	Manufacturer/Description
Grounding lug	ILsco GBL-4DBT
Bolt	#10-32, SS
Serrated Washer	#10, SS
Washer	ID 13/64", OD 7/16"
Nut	#10-32, SS

Any PV grounding method and components listed to meet NEC grounding requirements are also acceptable.

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- 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.