

Sunmodule⁺™

SW 240 poly

Version 2.0 and 2.5 Frame



WORLD CLASS QUALITY

Fully-automated production lines and seamless monitoring of the process and material supply ensure high standards 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-YEAR LINEAR PERFORMANCE GUARANTEE*

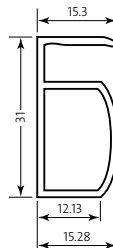
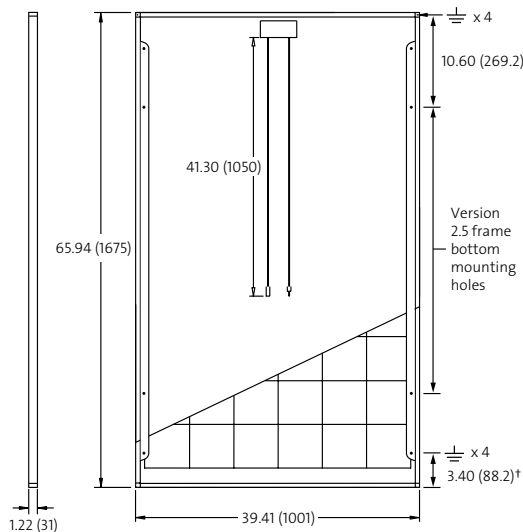
SolarWorld guarantees a maximum degeneration in performance of 0.7% per year for more than 25 years – a clear additional benefit compared with the conventional two-step industry guarantees. In addition there is a product workmanship warranty that covers 5 years.



PHYSICAL CHARACTERISTICS

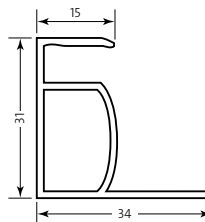
Cells per module	60
Cell type	Poly crystalline
Cell dimensions	6.14 in x 6.14 in (156 mm x 156 mm)
Front	Tempered glass (EN 12150)

Frame	Clear anodized aluminum
Weight	46.7 lbs (21.2 kg)
UL Maximum Test Load**	50 psf (2.4kN/m ²)
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.com

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

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SW 240 poly

Version 2.0 and 2.5 Frame

SW-01-5010US 03-2011

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 240
Maximum power	P_{max}	240 Wp
Open circuit voltage	V_{OC}	37.2 V
Maximum power point voltage	V_{MPP}	30.2 V
Short circuit current	I_{SC}	8.44 A
Maximum power point current	I_{MPP}	7.96 A

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 240
Maximum power	P_{max}	174.2 Wp
Open circuit voltage	V_{OC}	33.7 V
Maximum power point voltage	V_{MPP}	27.4 V
Short circuit current	I_{SC}	6.80 A
Maximum power point current	I_{MPP}	6.37 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.

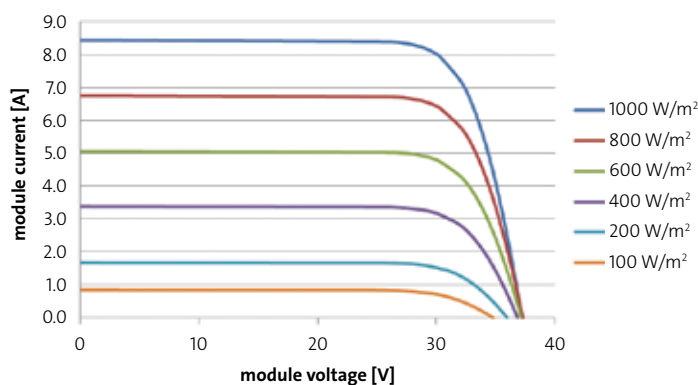
THERMAL CHARACTERISTICS

NOCT	46° C
TC I_{SC}	0.034 %/K
TC V_{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⁾	+/- 3%
SolarWorld Plus-Sorting ¹⁾	$P_{Flash} \geq P_{max}$
Junction box	IP65
Connector	MC4
Module efficiency	14.61%
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.



1) The output identified by SolarWorld (P_{Flash}) is always higher than the nominal output (P_{max}) of the module. P_{Flash} is the power rating flashed at a SolarWorld manufacturing facility.

2) Depending on the market.

3) Measuring tolerance is used in conjunction with the SolarWorld Limited Warranty. SolarWorld AG reserves the right to make specification changes without notice.