Sunmodule™

SW 240 mono black

Version 2.0 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

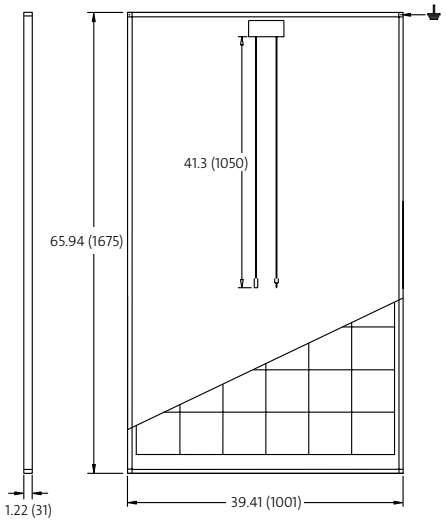
Plus-sorting guarantees the highest system efficiency. Only modules that achieve the designated nominal performance or greater in performance tests are dispatched.

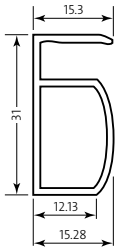
25 YEARS LINEAR PERFORMANCE GUARANTEE*

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	Mono 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/m²)
Front	Tempered glass (EN 12150)	**IEC Maximum Snow Test Load*****	113 psf (5.4kN/m²)





VERSION 2.0 FRAME

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

* 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.

www.solarworld.com

SOLARWORLD

We turn sunlight into power.

Sunmodule™ SW 240 mono black

Version 2.0 Frame

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

		SW 240
Maximum power	P_{max}	240 Wp
Open circuit voltage	U_{OC}	37.6 V
Maximum power point voltage	U_{MPP}	30.6 V
Short circuit current	I_{SC}	8.22 A
Maximum power point current	I_{MPP}	7.87 A

*STC: 1000W/m², 25°C, AM 1.5

PERFORMANCE AT 800 W/m², NOCT, AM 1.5

		SW 240
Maximum power	P_{max}	175.4 Wp
Open circuit voltage	U_{OC}	34.2 V
Maximum power point voltage	U_{MPP}	27.9 V
Short circuit current	I_{SC}	6.63 A
Maximum power point current	I_{MPP}	6.30 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.

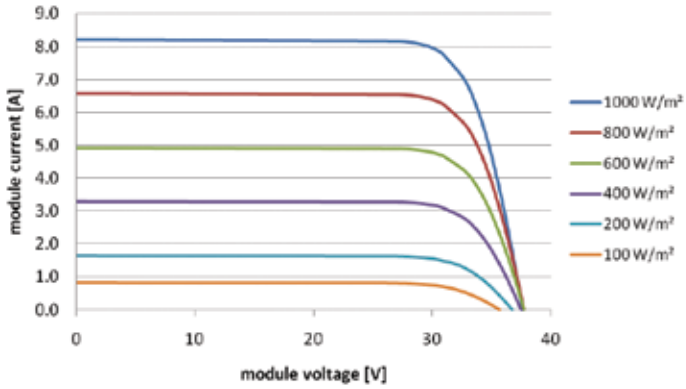
THERMAL CHARACTERISTICS

NOCT	47° C
TC I_{sc}	0.042 %K
TC U_{oc}	-0.33 %
TC P_{mpp}	-0.45%
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	14.31%
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)

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

c UL us LISTED 10SE
Photovoltaic Module / Panel

2) c ETL us LISTED Intertek

FOKUS TEST 06/10 Ammoniakbeständigkeit

VDE

ISO 9001
ISO 14001
Certified

CE

www.tuv.com TÜVRheinland ID: 000000228465
· 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.

3) Temporarily 34 mm frame available through May 2011.

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