

Sunmodule[®]

SW 235 mono / Version 2.0

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 highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

25-year 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.

*in accordance with the applicable SolarWorld Limited Warranty at purchase. www.solarworld.com/warranty



 Qualified, IEC 61215
 Safety tested, IEC 61730
 Periodic Inspection

















We turn sunlight into power.



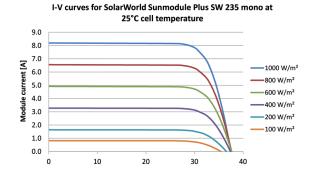
PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

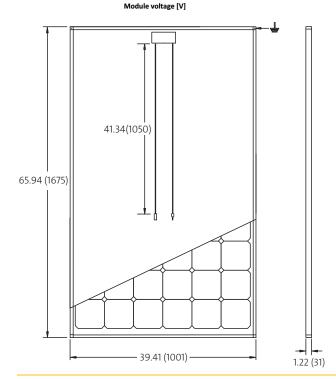
		SW 235
Maximum power	P _{max}	235 Wp
Open circuit voltage	V _{oc}	37.5 V
Maximum power point voltage	V_{mpp}	30.3 V
Short circuit current	l _{sc}	8.19 A
Maximum power point current	I _{mpp}	7.77 A

^{*}STC: 1000W/m2, 25°C, AM 1.5

THERMAL CHARACTERISTICS

NOCT	47 °C
TC I _{sc}	0.042 %/K
TC U _{oc}	-0.33 %/K
TC P _{mpp}	-0.45 %/K
Operating range	-40°C to 90°C





PERFORMANCE AT 800 W/m², NOCT, AM 1.5

	SW 235
P _{max}	170.9 Wp
V _{oc}	34.0 V
V_{mpp}	27.5 V
I _{sc}	6.60 A
I _{mpp}	6.22 A
	V _{oc} V _{mpp} I _{sc}

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

COMPONENT MATERIALS

Cells per module	60
Cell type	Mono 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/m²)
IEC Maximum Snow Test Load**	113 psf (5.4kN/m²)

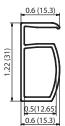
^{**}Please apply the appropriate factors of safety according to the test standard and local building code requirements when designing a PV system.

SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II	1000 V
Max. system voltage USA NEC	600 V
Maximum reverse current	16 A
Max. mechanical load	5.4 kN/m ²
Number of bypass diodes	3

ADDITIONAL DATA

Measuring tolerance ²⁾	+/- 3 % %
SolarWorld Plus-Sorting ³⁾	$P_{Flash} \ge P_{max}$
Junction box	IP65
Connector	MC4
Module efficiency	13.12%
Fire rating (UL 790)	Class C



VERSION 2.0 FRAME

- · Compatible with "Top-Down" mounting methodes
- ♣Grounding Locations: 4 corners of the frame

¹⁾ Sunmodules dedicated for the United States and Canada are tested to UL 1703 Standard and listed by a third party laboratory. The laboratory may vary by product and region. Check with your SolarWorld representative to confirm which laboratory has a listing for the product.
2) Measuring tolerance is used conjunctions with the SolarWorld Limited Warranty. SolarWorld AG reserves the right to make specification changes without notice.

³⁾ The output identified by SolarWorld (PFlash) is always higher than the nominal output (Pmax) of the module. PFlash is the power rating flashed at a SolarWorld manufacturing facility.

⁴⁾ All units provided are imperial. SI units provided in parentheses.