



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 years linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance degression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry. In addition, SolarWorld is offering a product warranty, which has been extended to 10 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.



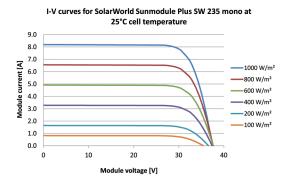
#### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

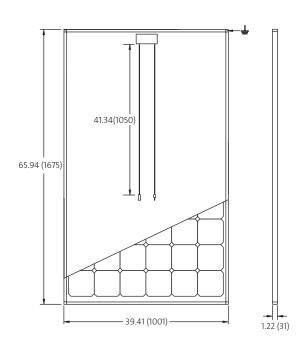
		SW 235
Maximum power	P <sub>max</sub>	235 Wp
Open circuit voltage	V <sub>oc</sub>	37.5 V
Maximum power point voltage	$V_{mpp}$	30.3 V
Short circuit current	l <sub>sc</sub>	8.19 A
Maximum power point current	Impp	7.77 A

<sup>\*</sup>STC: 1000W/m2, 25°C, AM 1.5

#### THERMAL CHARACTERISTICS

NOCT	47 °C
TC I <sub>sc</sub>	0.042 %/K
	0.22.0///
TC <sub>Voc</sub>	-0.33 %/K
	-0.45 %/K
TC P <sub>mpp</sub>	-0.43 /0/ K
Operating range	-40°C to 90°C
operating range	+0 C 10 30 C





#### PERFORMANCE AT 800 W/m<sup>2</sup>, NOCT, AM 1.5

	SW 235
P <sub>max</sub>	170.9 Wp
V <sub>oc</sub>	34.0 V
$V_{mpp}$	27.5 V
I <sub>sc</sub>	6.60 A
I <sub>mpp</sub>	6.22 A
	V <sub>oc</sub> V <sub>mpp</sub> I <sub>sc</sub>

Minor reduction in efficiency under partial load conditions at 25°C: at 200W/m<sup>2</sup>, 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)

<sup>\*\*</sup>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 <sup>2</sup>
Number of bypass diodes	3

# ADDITIONAL DATA

Measuring tolerance <sup>2)</sup>	+/- 3 %
SolarWorld Plus-Sorting <sup>3)</sup>	$P_{Flash} \ge P_{max}$
Junction box	IP65
Connector	MC4
Module efficiency	14,0 %
Fire rating (UL 790)	Class C



#### **VERSION 2.0 FRAME**

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

<sup>1)</sup> 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.

<sup>3)</sup> The output identified by SolarWorld (P<sub>Flash</sub>) is always higher than the nominal output (P<sub>max</sub>) 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.