



## 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



















We turn sunlight into power.



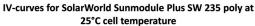
#### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

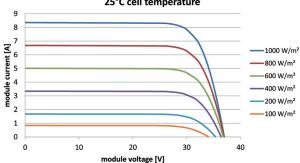
		SW 235
Maximum power	P <sub>max</sub>	235 Wp
Open circuit voltage	V <sub>oc</sub>	37.0 V
Maximum power point voltage	$V_{mpp}$	30.0 V
Short circuit current	l <sub>sc</sub>	8.35 A
Maximum power point current	I <sub>mpp</sub>	7.85 A

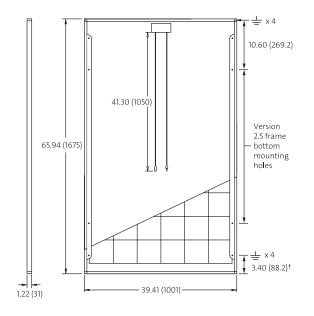
<sup>\*</sup>STC: 1000W/m<sup>2</sup>, 25°C, AM 1.5

#### THERMAL CHARACTERISTICS

NOCT	46 °C
TC I <sub>sc</sub>	0.034 %/K
TC U <sub>oc</sub>	-0.34 %/K
TC P <sub>mpp</sub>	-0.48 %/K
Operating range	-40°C to 90°C







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

		SW 235
Maximum power	P <sub>max</sub>	170.4 Wp
Open circuit voltage	V <sub>oc</sub>	33.5 V
Maximum power point voltage	$V_{mpp}$	27.1 V
Short circuit current	I <sub>sc</sub>	6.73 A
Maximum power point current	I <sub>mpp</sub>	6.28 A

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	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/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

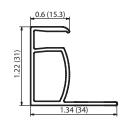
## ADDITIONAL DATA

Measuring tolerance <sup>2)</sup>	+/- 3 % %
SolarWorld Plus-Sorting <sup>3)</sup>	$P_{Flash} \ge P_{max}$
Junction box	IP65
Connector	MC4
Module efficiency	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



## VERSION 2.5 FRAME

- Compatible with both "Top-Down" and "Bottom" mounting methodes
- Grounding Locations:
- 4 corners of the frame
- 4 locations along the length of the module in the extended flange<sup>†</sup>

<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 Solar World representative to confirm which laboratory has a listing for the product.

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

<sup>4)</sup> All units provided are imperial. SI units provided in parentheses.