# Sunmodule<sup>\*</sup> Plus SW 255 mono black



TUV Power controlled: Lowest measuring tolerance in industry



Every component is tested to meet 3 times IEC requirements



Designed to withstand heavy accumulations of snow and ice



Sunmodule Plus: Positive performance tolerance



25-year linear performance warranty and 10-year product warranty



Glass with anti-reflective coating

# 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







UL 1703 ISO 9001 ISO 14001 Certified



We turn sunlight into power.

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

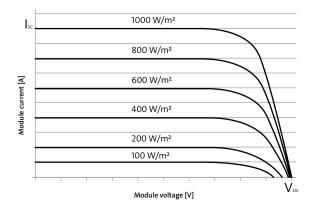
Maximum power	P <sub>max</sub>	255 Wp
Open circuit voltage	V <sub>oc</sub>	38.7 V
Maximum power point voltage	V <sub>mpp</sub>	30.6 V
Short circuit current	sc	9.05 A
Maximum power point current	I mpp	8.43 A

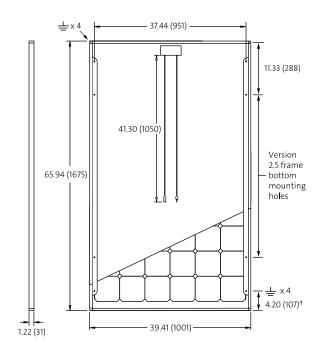
\*STC: 1000 W/m², 25°C, AM 1.5

1) Measuring tolerance ( $P_{max}$ ) traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

#### THERMAL CHARACTERISTICS

ΝΟCT	48 °C
TC I <sub>sc</sub>	0.04 %/°C
TC <sub>Voc</sub>	-0.30 %/°C
TC P <sub>mpp</sub>	-0.45 %/°C
Operating temperature	-40°C to 85°C





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

Maximum power	P <sub>max</sub>	188.5 Wp
Open circuit voltage	V <sub>oc</sub>	35.0 V
Maximum power point voltage	Vmpp	27.7 V
Short circuit current	I <sub>sc</sub>	7.32 A
Maximum power point current	Impp	6.81 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% (+/-2%) 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	Black anodized aluminum
Weight	46.7 lbs (21.2 kg)

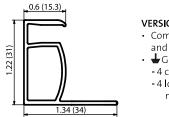
#### SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II		1000 V
Max. system voltage USA NEC		1000 V
Maximum reverse current		16 A
Number of bypass diodes		3
UL Design Loads*	Two rail system	113 psf downward 64 psf upward
UL Design Loads*	Three rail system	170 psf downward 64 psf upward
IEC Design Loads*	Two rail system	113 psf downward 50 psf upward

\* Please refer to the Sunmodule installation instructions for the details associated with these load cases.

### ADDITIONAL DATA

Power sorting <sup>1</sup>	-0 Wp / +5 Wp
J-Box	IP65
Module leads	PV wire per UL4703 with H4 connectors
Module efficiency	15.21 %
Fire rating (UL 790)	Class C
Glass	Low iron tempered with ARC



#### 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<sup>+</sup>