## Sunmodule\* Plus SW 280 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-year linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance digression 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















Home Innovation



# Sunmodule\* Plus SW 280 MONO BLACK



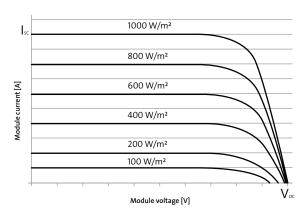
## PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

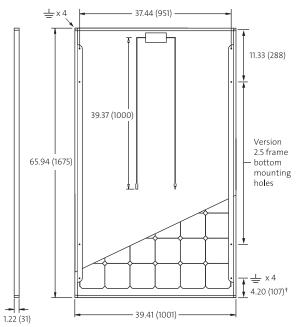
Maximum power	P <sub>max</sub>	280 Wp
Open circuit voltage	V <sub>oc</sub>	39.5 V
Maximum power point voltage	$V_{mpp}$	31.2 V
Short circuit current	I <sub>sc</sub>	9.71 A
Maximum power point current	I <sub>mpp</sub>	9.07 A
Module efficiency	n <sub>m</sub>	16.7 %

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

#### THERMAL CHARACTERISTICS

NOCT	48 °C
TC I <sub>sc</sub>	0.044 %/°C
TC <sub>Voc</sub>	-0.31 %/°C
TC P <sub>mpp</sub>	-0.43 %/°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>	207.2 Wp
Open circuit voltage	V <sub>oc</sub>	35.8 V
Maximum power point voltage	V <sub>mpp</sub>	28.3 V
Short circuit current	I <sub>sc</sub>	7.85 A
Maximum power point current	I <sub>mpp</sub>	7.33 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	6.17 in x 6.17 in (156.75 x 156.75 mm)
Front	Tempered glass (EN 12150)
Frame	Black anodized aluminum
Weight	39.5 lbs (17.9 kg)

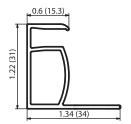
## SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II / NEC		1000 V
Maximum reverse current		25 A
Number of bypass diodes		3
Design Loads*	Two rail system	113 psf downward 64 psf upward
Design Loads*	Three rail system	170 psf downward 71 psf upward
Design Loads*	Edge mounting	30 psf downward 30 psf upward

 $<sup>{}^{*}</sup>$  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 type (UL 1703)	1
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>

<sup>1)</sup> Measuring tolerance (P<sub>max</sub>) traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).