

# Sunmodule<sup>+</sup>™

## SW 220 poly / Version 2.0 and 2.5 Frame

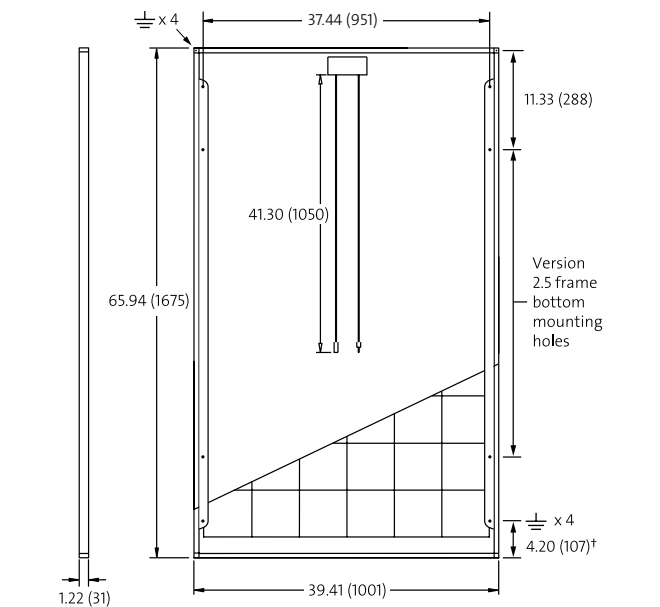
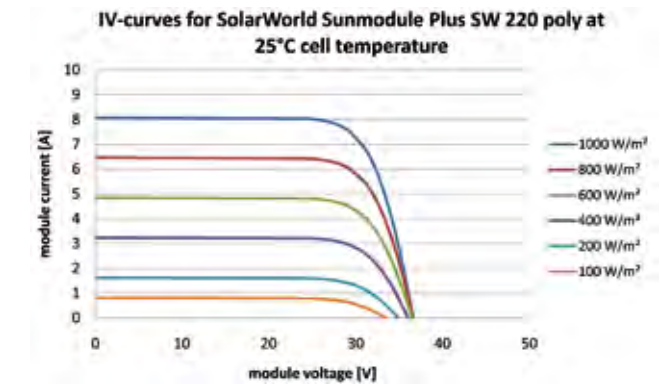
### PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)\*

		SW 220
Maximum power	$P_{max}$	220 Wp
Open circuit voltage	$V_{oc}$	36.6 V
Maximum power point voltage	$V_{mpp}$	29.2 V
Short circuit current	$I_{sc}$	8.08 A
Maximum power point current	$I_{mpp}$	7.54 A

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

### THERMAL CHARACTERISTICS

NOCT		46 °C
TC $I_{sc}$		0.081 %/K
TC $V_{oc}$		-0.37 %/K
TC $P_{mpp}$		-0.45 %/K
Operating temperature		-40°C to 85°C



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

		SW 220
Maximum power	$P_{max}$	157.3 Wp
Open circuit voltage	$V_{oc}$	33.1 V
Maximum power point voltage	$V_{mpp}$	26.2 V
Short circuit current	$I_{sc}$	6.68 A
Maximum power point current	$I_{mpp}$	6.01 A

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/m<sup>2</sup>) 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)

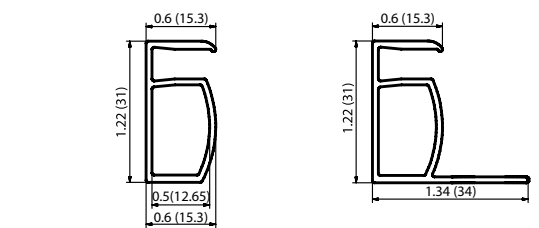
### SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II		1000 V
Max. system voltage USA NEC		600 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 tolerance <sup>2)</sup>		-0 Wp / +5 Wp
J-Box		IP65
Connector		MC4
Module efficiency		13.12 %
Fire rating (UL 790)		Class C



**VERSION 2.0 FRAME**  
 • Compatible with "Top-Down" mounting methods  
 • ⚡ Grounding Locations:  
 - 4 corners of the frame

**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\*



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### 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 degradation 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](http://www.solarworld.com/warranty)



We turn sunlight into power.

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 traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).  
 3) All units provided are imperial. SI units provided in parentheses.