

Solstice DC™

Module by SOLARWORLD



Sunmodule+™

SW 250 mono black / Version 2.5 Frame

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.

CertainTeed plus-sorting

Plus-sorting guarantees highest system efficiency. CertainTeed 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

CertainTeed 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, CertainTeed is offering a product warranty, which has been extended to 10 years.*

*in accordance with the applicable CertainTeed Limited Warranty at purchase.
www.certainteeted.com



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection



CertainTeed

SAINT-GOBAIN

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

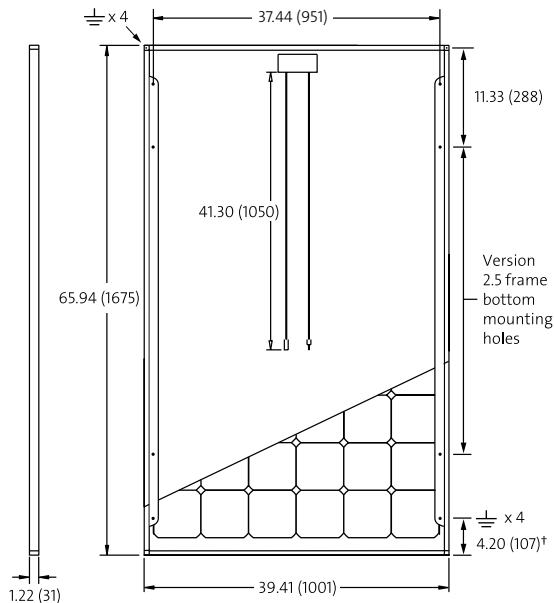
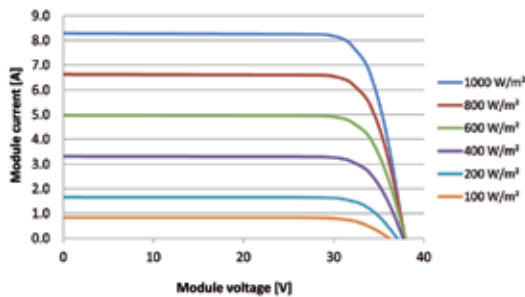
SW 250		
Maximum power	P_{MAX}	250 Wp
Open circuit voltage	V_{OC}	37.8 V
Maximum power point voltage	V_{MPP}	31.1 V
Short circuit current	I_{SC}	8.28 A
Maximum power point current	I_{MPP}	8.05 A

*STC: 1000W/m², 25°C, AM 1.5

THERMAL CHARACTERISTICS

NOCT	48 °C
TC I_{SC}	0.004 %/K
TC V_{OC}	-0.30 %/K
TC P_{MPP}	-0.45 %/K
Operating temperature	-40°C to 85°C

I-V curves for CertainTeed Sunmodule Plus SW 250 mono at 25°C cell temperature



PERFORMANCE AT 800 W/m², NOCT, AM 1.5

SW 250		
Maximum power	P_{MAX}	183.3 Wp
Open circuit voltage	V_{OC}	34.6 V
Maximum power point voltage	V_{MPP}	28.5 V
Short circuit current	I_{SC}	6.68 A
Maximum power point current	I_{MPP}	6.44 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	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)

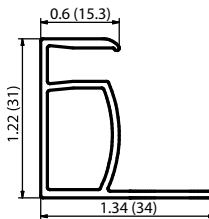
SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II	1000 V	
Maximum 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 sorting ²	-0 Wp / +5 Wp
J-Box	IP65
Connector	MC4
Module efficiency	14.91 %
Fire rating (UL 790)	Class C



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†

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 CertainTeed representative to confirm which laboratory has a listing for the product.

² Measuring tolerance traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

All units provided are imperial. SI units provided in parentheses.

CertainTeed reserves the right to make specification changes without notice.

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