SUN FLARE SYSTEMS SF1 SPECIFICATIONS

Dimensions 0.292m x 2.923m
Power Ranges 70-90 Wp

APPLICATIONS

Segments: Commercial, Industrial Rooftop & Utility

ELECTRICAL CHARACTERISTICS (STC)[1]

Solopower SF1		70	75	80	85	90
Rated Power (Pmax)[2]	W	70	75	80	85	90
Voltage at Pmax (Vmp)	V	29.2	30.1	31.3	32.8	35.0
Current at Pmax (Imp)	A	2.4	2.5	2.6	2.6	2.6
Short-circuit current (Isc)	A	3.1	3.1	3.1	3.1	3.0
Open-circuit Voltage (Voc)	V	41.3	42.1	42.9	45.4	47.0
Efficiency[3]	%	9.6	10.3	11.0	11.7	12.4

1. STC standard test conditions: 1000W/m² intensity, Air Mass 1.5, 25ºC cell temperature. The power tolerance is -3% / +5% Wp, at STC. The electrical characteristics are within ± 10% unless otherwise specified.
2. Stabilized Power.
3. Aperture Efficiency.

Solopower SF1					
Temp. Co-efficient of Isc	%/°C	- 0.03	Pmp	- 0.48	%/°C
Temp. Co-efficient of Voc	%/°C	- 0.36			
Max. Series Fuse Rating	A	5			
Maximum DC Voltage					
US	VDC	600			
EU	VDC	1,000			
NOCT	°C	48			

PHYSICAL CHARACTERISTICS

Solopower SF1	
Length	115.1 in / 2.923 m
Width	11.5 in / 0.292 m
Thickness	0.1 in / 2.0 mm
Weight	4.5 lbs / 2.0 kg
Roof Load From Module	0.49 lbs/ft² / 2.4 kg/m²

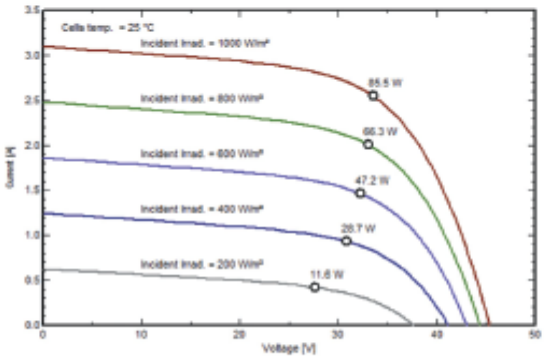
QUALIFICATIONS

Certified to Standards: UL 1703, IEC 61646, & IEC 61730.

WARRANTY

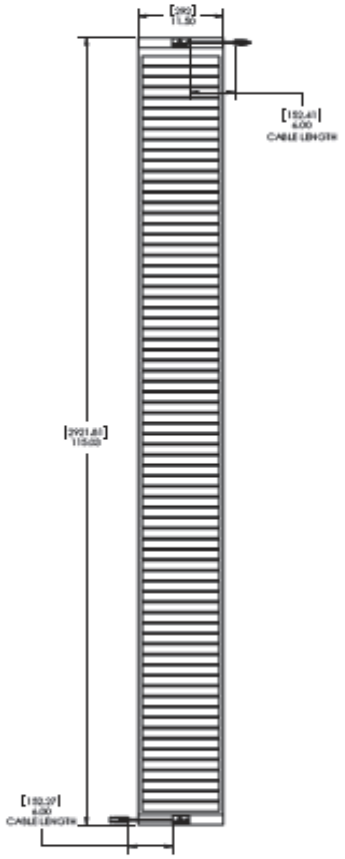
Limited Warranty
Materials and workmanship: 5 years
Power output: 25 years (90% of nominal rated power for years 1 to 10, 80% of nominal rated power for years 11 to 25). Designed and manufactured in the US.

IV CURVES



Current (A) vs. Voltage (V) at various Irradiance levels

MECHANICAL DRAWING



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