

SIL-580 XM+ **BIFACIAL**



SIL

SOLAR

NEXT-GENERATION N-TYPE CELL TECHNOLOGY

TEC

Manufactured exclusively in the USA.

E

- Improved Shade Tolerance
- Efficient Bifacial Energy Yield
- Increased Performance in **High Temperatures**
- Improved Low-Light Performance
 Enhanced Durability
 - Reduced Degradation Rate
 - 25-Year Product Warranty/ 30-Year Performance Warranty



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ELECTRICAL SPECIFICATIONS			580			
Test Conditions		STC	BSTC	NOCT		
Module Power (Pmax)	Wp	580	632.8	428.2		
Maximum power voltage (Vpmax)	V	44.27	44.27	40.73		
Maximum power current (Ipmax)	А	13.10	14.29	10.51		
Open circuit voltage (Voc)	V	52.27	52.32	48.08		
Short circuit current (Isc)	А	13.85	15.11	11.12		
Module efficiency	%	22.4%				
Maximum system voltage (VDC)	V	1500				
Series fuse rating	А	30				
Power Tolerance	Wp	0 to +10				
Bifaciality Factor	%	80+-10				

Performance conditions: Measurement tolerance < 3% • Standard Test Conditions (STC): 1000 W/m², AM 1.5, Temperature 25 °C • Nominal Operating Cell Temperature (NOCT): 800 W/m², AM 1.5 • Bifacial Standard Test Conditions (BSTC): 1000 W/m2 + ϕ × 135 W/m2 , ϕ = 80 % , AM 1.5 • Electrical characteristics may vary by ±5%.

MECHANICAL PROPERTIES / COMPONENTS		METRIC		IMPERIAL	IPERIAL		
Module weight		28.5 kg ±0.2 kg		62.8 lbs ±0.4 lbs			
Dimensions (H x L x D)				39.7 in x 44.6 in x 1.4 in			
Maximum surface load (wind/snow)*		2400 Pa rear load / 5400 Pa front load		50.1 lb/ft² rear load / 112.8 lb/ft² front load			
Hail impact resistance		ø 25 mm at 83 km/h		ø 1 in at 51.6 mph			
Cells		144 Half cells - N-Type Silicon solar cell 182 mm x 91 mm		144 Half cells - N-Type Silicon solar cell 7.16 in x 3.58 in			
Glass		3.2 mm high transmittance, tempered, anti-reflective coating		0.126 in high transmittance, tempered, anti-reflective coating			
Cables and connectors (refer to installation manual)		1350 mm, ø 5.7 mm, EVO2 from Staubli		53.1 in, ø 0.22 in (12 AWG), EVO2 from Staubli			
Backsheet		High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, transparent PV backsheet					
Frame		Anodized Aluminum (Silver)					
Junction Box		UL 3730 Certified, IEC 62790 Certified, IP68 rated, 3 diodes					
TEMPERATURE RATINGS			WARRANTIES				
Temperature Coefficient Isc	0.04 %/°C		Module product workmanship warranty		25 years**		
Temperature Coefficient Voc	-0.24 %/°C		Linear power performance guarantee		30 years		
Temperature Coefficient Pmax	-0.29 %/°C				≥ 98% end 1st yr ≥ 94.7% end 12th yr ≥ 90.8% end 25th yr		
NOCT (± 2°C)	45 °C						
Operating temperature	-40/+85 °C				≥ 89.3% end 30th yr		
CERTIFICATIONS		SHIPPING SPECS					
Product		UL 61215, UL 61730, CSA C22.2#61730, IEC 61215, IEC 61730, IEC 61701 (Salt Mit Corrosion), IEC 62716 (Ammonia Corrosion), CEC Listed,			llet:	29	

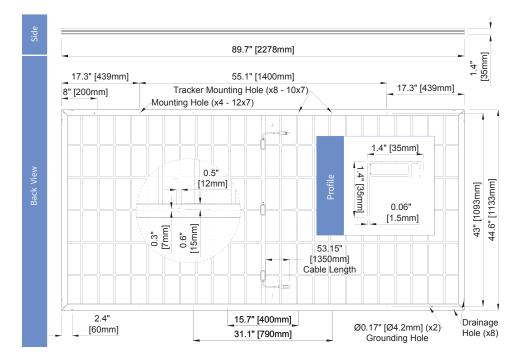
A Warning. Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules. ** 12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at silfabsolar.com PAN files generated from 3rd party performance data are available for download at: silfabsolar.com/downloads.

UL Fire Rating: Type 1

ISO9001:2015

Product

Factory



SILFAB SOLAR INC.

21 22

California (Pallets per load)

Others (Pallets per load)

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