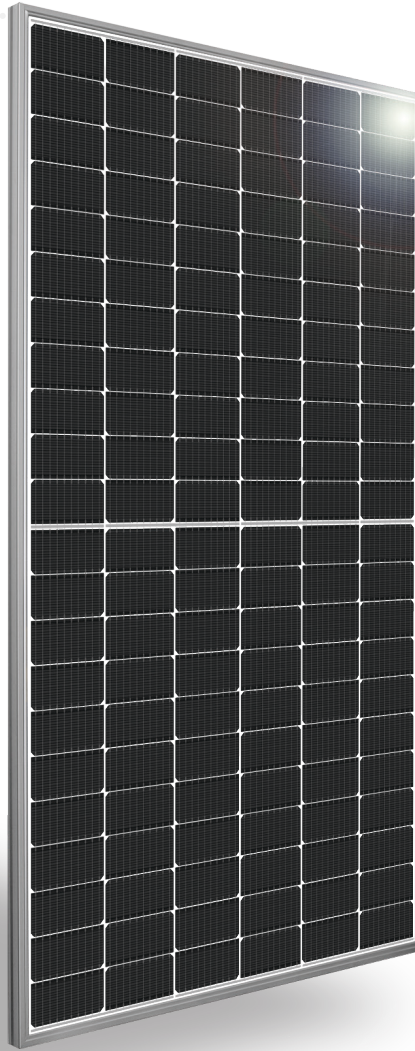


**SILFAB**  
COMMERCIAL **NTC**

SIL-520 XM  
**BIFACIAL**

**SILFAB**  
SOLAR®



## • INTRODUCING NEXT-GENERATION N-TYPE CELL TECHNOLOGY

- Improved Shade Tolerance
- Improved Low-Light Performance
- Increased Performance in High Temperatures
- Enhanced Durability
- Reduced Degradation Rate
- Industry-Leading Warranty



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ELECTRICAL SPECIFICATIONS		520		STC at front+irradiance % on back side		
Test Conditions		STC	NOCT	10%	20%	30%
Module Power (Pmax)	Wp	520	384	563	607	651
Maximum power voltage (Vpmax)	V	40.48	37.24	40.61	40.73	40.84
Maximum power current (Ipmax)	A	12.85	10.31	13.9	14.9	15.9
Open circuit voltage (Voc)	V	47.52	43.71	47.65	47.77	47.88
Short circuit current (Isc)	A	13.65	10.96	14.7	15.8	16.9
Module efficiency	%	21.9%	20.2%	23.7%	25.5%	27.4%
Maximum system voltage (VDC)	V	1500				
Series fuse rating	A	30				
Power Tolerance	Wp	0 to +10				
Bifaciality Factor	%	80±5				

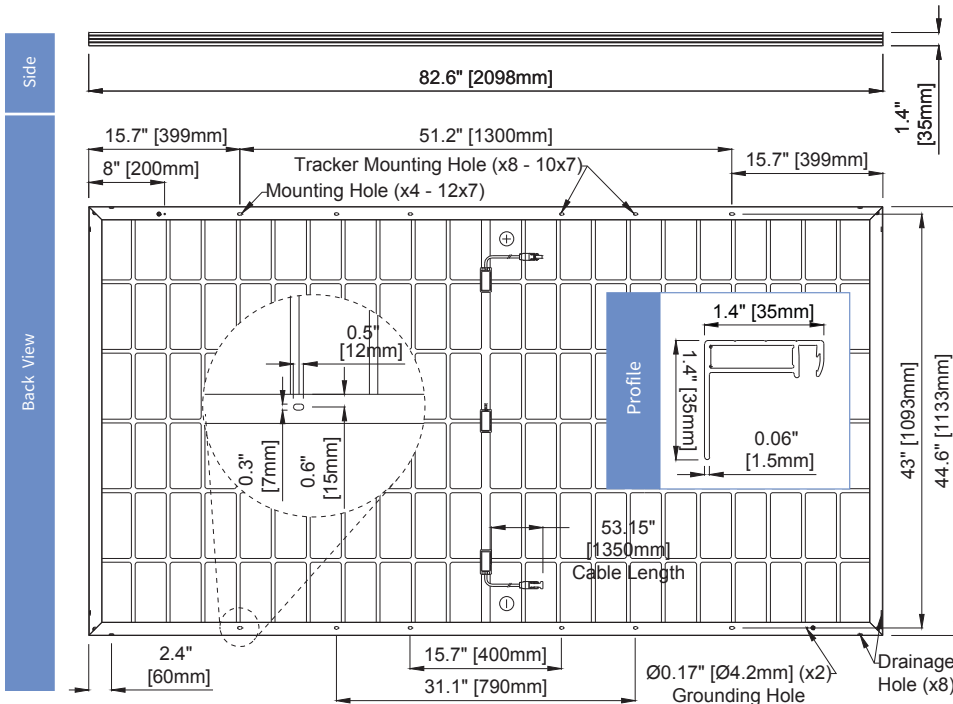
Measurement conditions: STC 1000 W/m<sup>2</sup> • AM 1.5 • Temperature 25 °C • NOCT 800 W/m<sup>2</sup> • AM 1.5 • Measurement uncertainty ≤ 3%. Sun simulator calibration reference modules from authorized third-party lab. Electrical characteristics may vary by ±5% and power by 0 to +10W. Bifaciality Factor = Pmax rear / Pmax front, both cases are tested under STC.

MECHANICAL PROPERTIES / COMPONENTS	METRIC	IMPERIAL
Module weight	26.2 kg ±0.2 kg	57.8 lbs ±0.4 lbs
Dimensions (H x L x D)	2098 mm x 1133 mm x 35 mm	82.6 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/ft <sup>2</sup> rear load / 112.8 lb/ft <sup>2</sup> front load
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph
Cells	132 Half cells - N-Type Silicon solar cell 91 x 182 mm	132 Half cells - N-Type Silicon solar cell 3.58 x 7.16 in
Glass	3.2 mm high transmittance, tempered, DSM antireflective coating	0.126 in high transmittance, tempered, DSM antireflective coating
Cables and connectors (refer to installation manual)	1350 mm, ø 5.7 mm, EVO2 from Staubli	53.1 in, ø 0.22 in (12AWG), EVO2 from Staubli
Backsheet	High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free clear 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 ≥ 89.3% end 30th yr
NOCT (± 2°C)	45 °C		
Operating temperature	-40/+85 °C		

CERTIFICATIONS		SHIPPING SPECS	
Product	UL 61215***, UL 61730***, CSA C22.2#61730***, IEC 61215***, IEC 61730***, IEC 61701 (Salt Mist Corrosion), IEC 62716 (Ammonia Corrosion), CEC Listing***, UL Fire Rating: Type 1	Modules Per Pallet:	29 or 29 (California)
Factory	ISO9001:2015	Pallets Per Truck	24 or 23 (California)
		Modules Per Truck	696 or 667 (California)

- \* ⚠ 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](http://silfabsolar.com). PAN files generated from 3rd party performance data are available for download at: [silfabsolar.com/downloads](http://silfabsolar.com/downloads).
- \*\*\* Certification and CEC listing in progress.



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