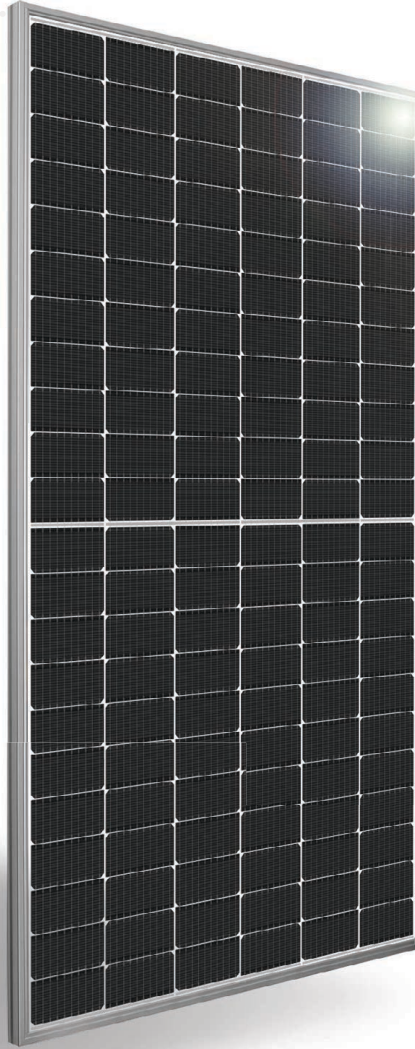


# SILFAB COMMERCIAL NTC



SIL-520 XM  
BIFACIAL



## • NEXT-GENERATION N-TYPE CELL TECHNOLOGY

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



[SILFABSOLAR.COM](http://SILFABSOLAR.COM)



ELECTRICAL SPECIFICATIONS		520		
Test Conditions		STC	BSTC	NOCT
Module Power (Pmax)	Wp	520	567.3	383.9
Maximum power voltage (Vpmax)	V	40.48	40.48	37.24
Maximum power current (Ipmax)	A	12.85	14.02	10.31
Open circuit voltage (Voc)	V	47.52	47.57	43.71
Short circuit current (Isc)	A	13.65	14.89	10.96
Module efficiency	%	21.9%		
Maximum system voltage (VDC)	V		1500	
Series fuse rating	A		30	
Power Tolerance	Wp		0 to +10	
Bifaciality Factor	%		80±5	

Performance conditions: Measurement tolerance  $\leq 3\%$  • Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, AM 1.5, Temperature 25 °C • Nominal Operating Cell Temperature (NOCT): 800 W/m<sup>2</sup>, AM 1.5 • Bifacial Standard Test Conditions (BSTC): 1000 W/m<sup>2</sup> +  $\phi \times 135$  W/m<sup>2</sup>,  $\phi = 80\%$ , AM 1.5 • Electrical characteristics may vary by  $\pm 5\%$ .

MECHANICAL PROPERTIES / COMPONENTS	METRIC	IMPERIAL
Module weight	26.2 kg $\pm 0.2$ kg	57.8 lbs $\pm 0.4$ 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	$\phi$ 25 mm at 83 km/h	$\phi$ 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, $\phi$ 5.7 mm, EVO2 from Staubli	53.1 in, $\phi$ 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	

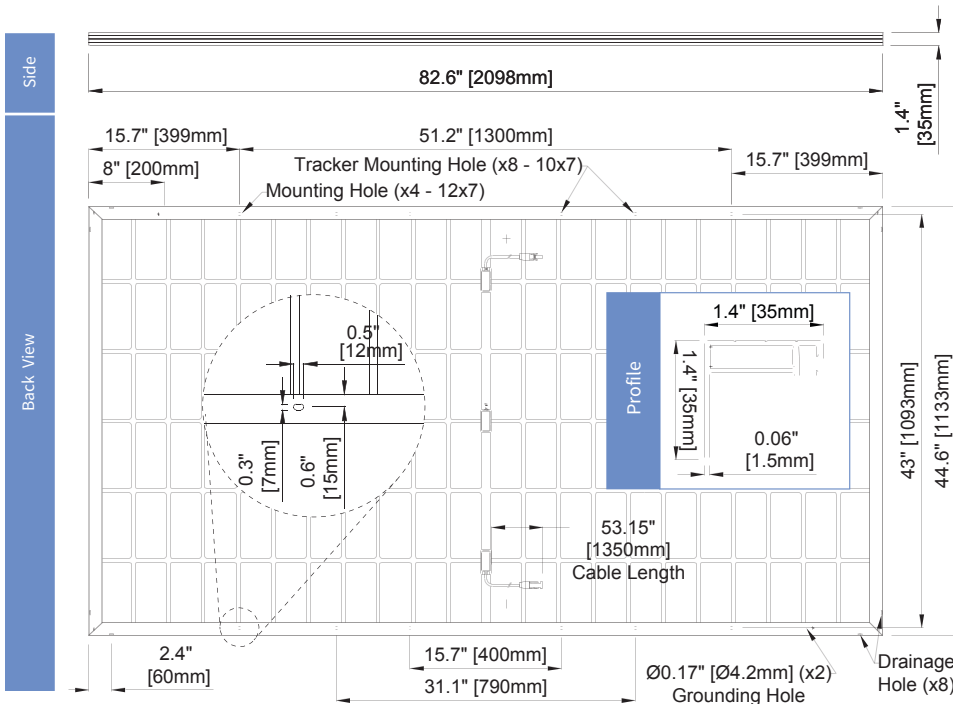
TEMPERATURE RATINGS		WARRANTIES	
Temperature Coefficient Isc	0.04 %/°C	Module product workmanship warranty	25 years**
Temperature Coefficient Voc	-0.24 %/°C	Linear power performance guarantee	30 years
Temperature Coefficient Pmax	-0.29 %/°C		$\geq 98\%$ end 1st yr $\geq 94.7\%$ end 12th yr $\geq 90.8\%$ end 25th yr $\geq 89.3\%$ end 30th yr
NOCT ( $\pm 2^\circ\text{C}$ )	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).



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