

ELECTRICAL SPECIFICATIONS		620			630			640		
Test Conditions		STC	BSTC	NOCT	STC	BSTC	NOCT	STC	BSTC	NOCT
Module Power (Pmax)	Wp	620	686.96	463.48	630	698.04	470.96	640	709.12	478.44
Maximum power voltage (Vpmax)	V	48.16	48.16	44.95	48.47	48.47	45.24	48.78	48.78	45.53
Maximum power current (Ipmax)	A	12.87	14.26	10.31	13.00	14.40	10.41	13.12	14.54	10.51
Open circuit voltage (Voc)	V	57.21	57.50	53.85	57.49	57.78	54.11	57.76	58.05	54.37
Short circuit current (Isc)	A	13.55	15.01	10.91	13.66	15.13	11.00	13.76	15.25	11.09
Module efficiency	%	22.20%			22.56%			22.92%		
Maximum system voltage (VDC)	V	1500								
Series fuse rating	A	30								
Power Tolerance	Wp	0 to +10								
Bifaciality Factor	%	80±5								

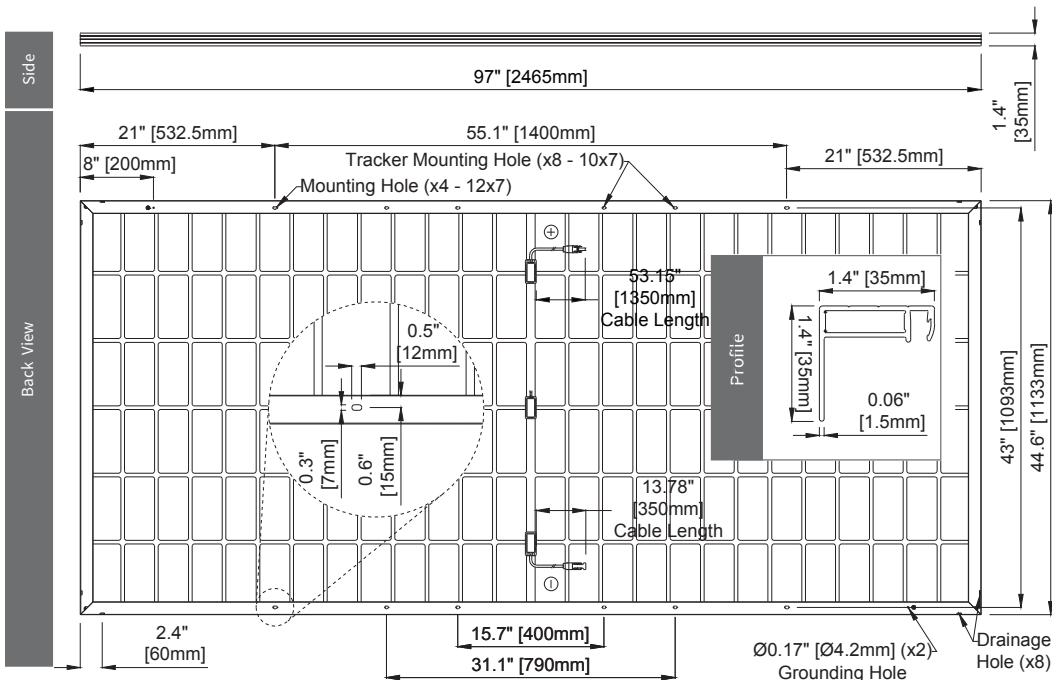
Performance conditions: Measurement tolerance ≤ 3% • Standard Test Conditions (STC): 1000 W/m², AM 1.5, Temperature 25 °C • Nominal Operating Cell Temperature (NOCT): 800 W/m², AM 1.5 • Bifacial Standard Test Conditions (BSTC): 1000 W/m² + φ × 135 W/m², φ = 80 %, AM 1.5 • Electrical characteristics may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

MECHANICAL PROPERTIES / COMPONENTS	METRIC	IMPERIAL
Module weight	29.5 kg ±0.25 kg	65.8 lbs ±0.5 lbs
Dimensions (H x L x D)	2465 mm x 1133 mm x 35 mm	97.0 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 ² rear load / 112.8 lb/ft ² front load
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph
Cells	156 Half cells - N-Type Silicon solar cell 91 x 182 mm	156 Half cells - N-Type Silicon solar cell 3.58 x 7.16 in
Glass	3.2 mm high transmittance, tempered, antireflective coating	0.126 in high transmittance, tempered, antireflective coating
Cables and connectors (refer to installation manual)	(+)1350 mm, (-)350mm, ø 5.7 mm, EVO2 from Staubli	(+)53.1in, (-)13.8in, ø 0.22 in (12AWG), EVO2 from Staubli
Backsheet	High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, transparent PV backsheet	
Frame	Anodized Aluminum (Silver)	
Junction Box	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:	TBD
Factory	ISO9001:2015	Pallets Per Truck	TBD
		Modules Per Truck	TBD

- * ⚠ 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.
- *** Certification and CEC listing in progress.



SILFAB SOLAR INC.

1770 Port Drive
Burlington WA 98233 USA
T +1 360.569.4733
info@silfabsolar.com
SILFABSOLAR.COM

7149 Logistics Lane
Fort Mill SC 29715 USA
T +1 839.400.4338

240 Courtneypark Drive East
Mississauga ON L5T 2S5 Canada
T +1 905.255.2501
F +1 905.696.0267

Silfab - SIL-620-630-640-XL-BIFACIAL 20240829
No reproduction of any kind is allowed without permission. Data and information is subject to modifications without notice. © Silfab Solar Inc., 2024. Silfab Solar® is a registered trademark of Silfab Solar Inc.