



# SIL-310 ML



## 60 Cell Monocrystalline PV Module

### INDUSTRY LEADING WARRANTY

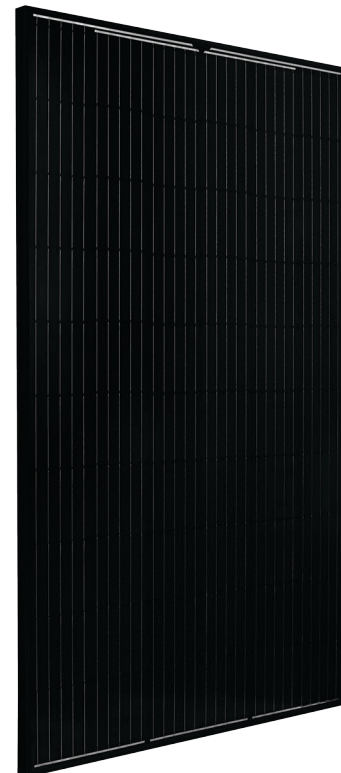
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

### 35+ YEARS OF SOLAR INNOVATION

Leveraging over 35+ years of worldwide experience in the solar industry, Silfab is dedicated to superior manufacturing processes and innovations such as Bifacial and Back Contact technologies, to ensure our partners have the latest in solar innovation.

### NORTH AMERICAN QUALITY

Silfab is the largest and most automated solar manufacturer in North America. Utilizing premium quality materials and strict quality control management to deliver the highest efficiency, premium quality PV modules 100% made in North America.



CHUBB®

\* Chubb provides error and omission insurance to Silfab Solar Inc.

### ■ BAA / ARRA COMPLIANT

Silfab panels are designed and manufactured to meet Buy American Act Compliance. The US State Department, US Military and FAA have all entrusted Silfab panels in their solar installations.

### ■ LIGHT AND DURABLE

Engineered to accommodate low load bearing structures up to 5400Pa. The light-weight frame is exclusively designed for wide-ranging racking compatibility and durability.

### ■ LOWEST DEFECT RATE

Total automation ensures strict quality controls during the entire manufacturing process at our ISO certified facilities. 48.18 ppm as per December 2018.

### ■ DOMESTIC PRODUCTION

Silfab is 100% North American which means our customer service is direct, efficient and local. Your solar panels can be delivered anywhere in the Continental USA within days.

### ■ AESTHETICALLY PLEASING

All black sleek design doesn't compromise on quality.

### ■ PID RESISTANT

PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1

Electrical Specifications		SILFAB SIL-310 ML mono PERC	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	310	234
Maximum power voltage (Vpmax)	V	33.05	29.7
Maximum power current (Ipmax)	A	9.38	7.88
Open circuit voltage (Voc)	V	40.25	37.2
Short circuit current (Isc)	A	9.93	8.14
Module efficiency	%	19.0	17.9
Maximum system voltage (VDC)	V		1000
Series fuse rating	A		20
Power Tolerance	Wp		-0/+10

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 Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+10W.

Temperature Ratings		SILFAB SIL-310 ML mono PERC	
Temperature Coefficient Isc	%/°C		0.064
Temperature Coefficient Voc	%/°C		-0.28
Temperature Coefficient Pmax	%/°C		-0.36
NOCT (± 2°C)	°C		45
Operating temperature	°C		-40/+85

Mechanical Properties and Components		SILFAB SIL-310 ML mono PERC	
Module weight (± 1 kg)	kg		19
Dimensions (H x L x D; ± 1mm)	mm		1700 x 1000 x 38
Maximum surface load (wind/snow)*	N/m <sup>2</sup>		4000 Pa upward / 5400 Pa downward
Hail impact resistance			Ø 25 mm at 83 km/h
Cells			60 - Si monocrystalline - 4 or 5 busbar - 156.75 x 156.75 mm
Glass			3.2 mm high transmittance, tempered, antireflective coating
Backsheet			Multilayer polyester-based
Frame			Anodized Al (Black)
Bypass diodes			3 diodes, 20SQ040 (45V/20A)
Cables and connectors			1200 mm Ø 5.7 mm (4 mm <sup>2</sup> ), MC4 compatible (refer to installation manual)
Junction Box			

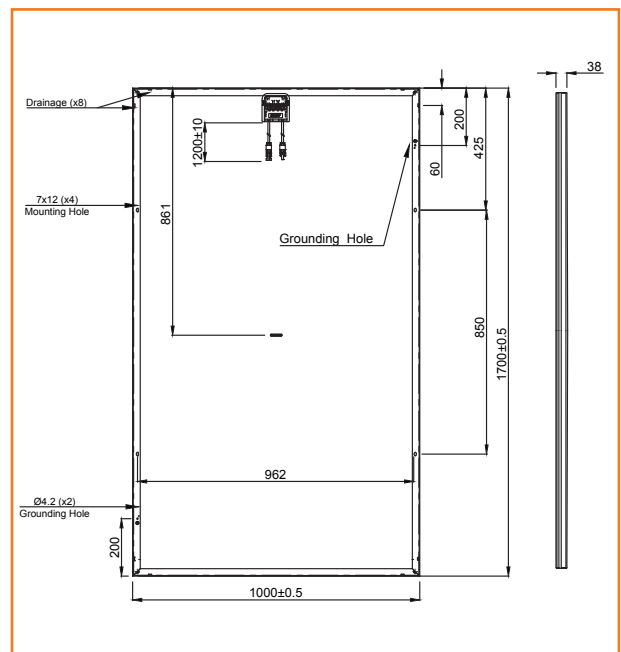
Warranties		SILFAB SIL-310 ML mono PERC	
Module product workmanship warranty			25 years**
			30 years
Linear power performance guarantee			≥ 97% end of 1 <sup>st</sup> year
			≥ 90% end of 12 <sup>th</sup> year
			≥ 82% end of 25 <sup>th</sup> year
			≥ 80% end of 30 <sup>th</sup> year

Certifications		SILFAB SIL-310 ML mono PERC	
Product			ULC ORD C1703, UL 1703, IEC 61215, IEC 61730-1 and IEC 61730-2 Certified. FSEC and CEC listed. IEC 62716 Ammonia Corrosion, IEC 61701:2011 Salt Mist Corrosion Certified
Factory			UL Fire Rating: Type 2 (Type 1 on request) ISO9001:2015

\*Please refer to the Safety and Installation Manual for mounting specifications.  
 \*\*12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at [www.silfabsolar.com](http://www.silfabsolar.com).  
**Warning:** Read the installation and User Manual before handling, installing and operating modules.  
 Third-party generated pan files from Fraunhofer-Institute for Solar Energy Systems ISE are available for download at: [www.silfabsolar.com/downloads](http://www.silfabsolar.com/downloads)



Modules Per Pallet: 26  
 Pallets Per Truck: 36  
 Modules Per Truck: 936



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