



# SLA-HC 320 Wp

(Available 2019)



## 120 Cell Monocrystalline PV Module



CHUBB®

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

### INDUSTRY LEADING WARRANTY

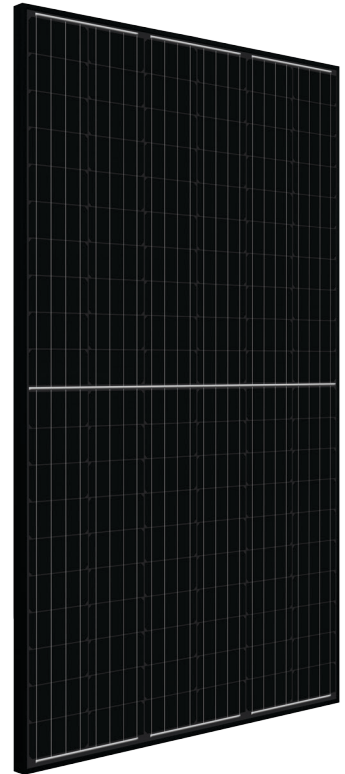
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

### 100% MAXIMUM POWER DENSITY

Silfab's SLA-HC 320 ultra-high-efficiency modules are optimized for both Residential and Commercial projects where maximum power density is preferred.

### 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.



### PROVIDES MAXIMUM EFFICIENCY

120 of the highest efficiency, half-cut cells result in a maximum power rating of 320Wp.

### 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.

### 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.

### SUPERIOR POWER

All black sleek design doesn't compromise on quality.

### HIGHER ENERGY YIELD

Higher energy yield in shaded conditions, lower hot-spot temperature risk, and lower temperature coefficients.

### STABLE PERFORMANCE

Split junction-box design reduces module circuitry resistance, resulting in higher energy yields and module durability.

### PID RESISTANT

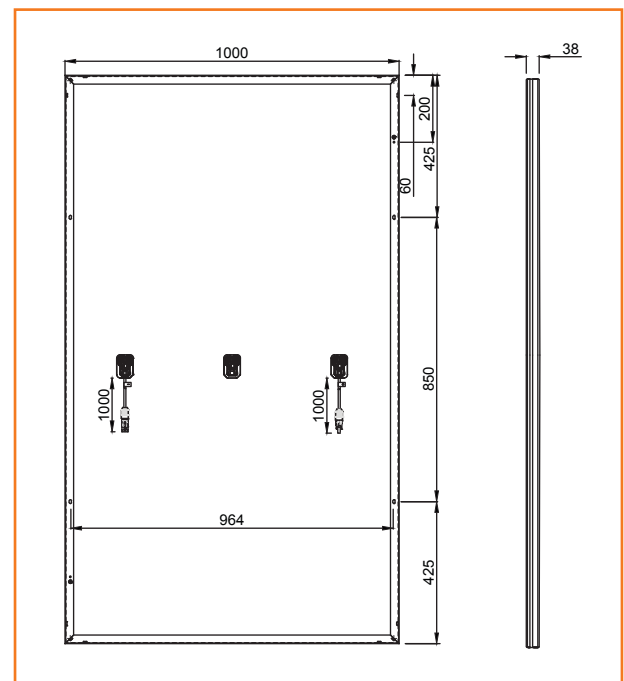
PID Resistant due to advanced cell technology and material selection. In accordance to IEC 62804-1

Electrical Specifications		SILFAB SLA-M-HC Monocrystalline	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	320	242
Maximum power voltage (Vpmax)	V	33.7	30.3
Maximum power current (Ipmax)	A	9.5	8.0
Open circuit voltage (Voc)	V	40.45	37.42
Short circuit current (Isc)	A	9.96	8.17
Module efficiency	%	20.0	18.5
Maximum system voltage (VDC)	V	1000	
Series fuse rating	A	20	
Power Tolerance	Wp	-0/+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 Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+5W.			
Temperature Ratings		SILFAB SLA-M-HC Monocrystalline	
Temperature Coefficient Isc	%/K	0.03	
Temperature Coefficient Voc	%/K	-0.03	
Temperature Coefficient Pmax	%/K	-0.38	
NOCT (± 2°C)	°C	45	
Operating temperature	°C	-40/+85	
Mechanical Properties and Components		SILFAB SLA-M-HC Monocrystalline	
Module weight (± 1 kg)	kg	19.5	
Dimensions (H x L x D; ± 1mm)	mm	1700 x 1000 x 38	
Maximum surface load (wind/snow)*	N/m <sup>2</sup>	2400 Pa upward / 5400 Pa downward	
Hail impact resistance		Ø 25 mm at 83 km/h	
Cells		120 - Si monocrystalline cells	
Glass		3.2 mm high transmittance, tempered, antireflective coating	
Backsheet		Multilayer polyester-based (Black air-side)	
Frame		Anodized Al (Black)	
Bypass diodes		3 diodes-20SQ040 (45V, 20A) IP67/IP68 Junction Box	
Cables and connectors (See installation manual)		1200 mm Ø 5.7 mm (4 mm <sup>2</sup> ), Multicontact MC	
Warranties		SILFAB SLA-M-HC Monocrystalline	
Module product workmanship warranty		25 years**	
		30 years	
		≥ 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	
Linear power performance guarantee			
Certifications		SILFAB SLA-M-HC Monocrystalline	
Product***		ULC ORD C1703, UL 1703, FSEC and CEC listed	
		UL Fire Rating: Type 2 (Type 1 on request)	
Factory		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).  
 \*\*\*In Progress

⚠ Warning: Read the installation and User Manual before handling, installing and operating modules.

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



Silfab Solar Inc.  
 240 Courtneypark Drive East  
 Mississauga ON L5T 2Y3 Canada  
 Tel +1 905-255-2501 | Fax +1 905-696-0267  
[info@silfabsolar.com](mailto:info@silfabsolar.com) | [www.silfabsolar.com](http://www.silfabsolar.com)

Silfab Solar Inc.  
 800 Cornwall Ave  
 Bellingham WA 98225 USA  
 Tel +1 360-569-4733