



Los Angeles • Toronto • Minneapolis

# SLA-M Monocrystalline



# 310 Wp 60 Cell

## Monocrystalline PV Module

### 100% MAXIMUM POWER DENSITY

Silfab's SLA-M 310 ultra-high-efficiency modules are optimized for both Residential and Commercial projects where maximum power density is preferred.

### 100% NORTH AMERICAN QUALITY MATTERS

Silfab's fully-automated manufacturing facility ensures precision engineering is applied at every stage. Superior reliability and performance combine to produce one of the highest quality modules with the lowest defect rate in the industry.

### NORTH AMERICAN CUSTOMIZED SERVICE

Silfab's 100% North American based team leverages just-in-time manufacturing to deliver unparalleled service, on-time delivery and flexible project solutions.



#### ENSURES MAXIMUM EFFICIENCY

60 of the highest efficiency, premium quality monocrystalline cells result in a maximum power rating of 310Wp.

#### ADVANCED PERFORMANCE WARRANTY

25-year linear power performance guarantee to 82%

#### ENHANCED PRODUCT WARRANTY

12-year product/workmanship warranty

#### BUILT BY INDUSTRY EXPERTS

With over 35 years of industry experience, Silfab's technical team are pioneers in PV technology and are dedicated to an innovative approach that provides superior manufacturing processes including: infra-red cell sorting, glass washing, automated soldering and meticulous cell alignment.

#### POSITIVE TOLERANCE

(-0/+5W) All positive module sorting ensures maximum performance

#### 44 PPM DEFECT RATE\*

Total automation ensures strict quality control during each step of the process at our certified ISO manufacturing facility. \*As of December 31, 2016

#### LIGHT AND DURABLE

Over-engineered to weather low load bearing structures up to 5400 Pa. Light-weight frame exclusively designed with wide-ranging racking compatibility and durability.

#### PID RESISTANT

Proven in accordance to IEC 62804-1

#### AVAILABLE IN

All Black



Electrical Specifications		SILFAB SLA Monocrystalline	
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		15
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 Monocrystalline	
Temperature Coefficient Isc	%/K		0.03
Temperature Coefficient Voc	%/K		-0.30
Temperature Coefficient Pmax	%/K		-0.38
NOCT (± 2°C)	°C		45
Operating temperature	°C		-40/+85

Mechanical Properties and Components		SILFAB SLA Monocrystalline	
Module weight (± 1 kg)	kg		19
Dimensions (H x L x D; ± 1mm)	mm		1650 x 990 x 38
Maximum surface load (wind/snow)*	N/m <sup>2</sup>		5400
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
Bypass diodes			3 diodes-45V/12A, IP67/IP68
Cables and connectors (See installation manual)			1200 mm Ø 5.7 mm (4 mm <sup>2</sup> ), MC4 compatible

Warranties		SILFAB SLA Monocrystalline	
Module product warranty			12 years 25 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

Certifications		SILFAB SLA Monocrystalline	
Product			ULC ORD C1703, UL 1703, IEC 61215, IEC 61730, IEC 61701, CEC listed UL Fire Rating: Type 2 (Type 1 on request)
Factory			ISO 9001:2008



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

Third-party generated pan files from PV Evolution Labs available for download at:  
[www.silfab.ca/downloads](http://www.silfab.ca/downloads)



- Pallet Count: 26
- Container Count: 936



Silfab Solar Inc.  
 240 Courtneypark Drive East • Mississauga,  
 Ontario Canada L5T 2S5  
 Tel +1 905-255-2501 • Fax +1 905-696-0267  
[info@silfab.ca](mailto:info@silfab.ca) • [www.silfab.ca](http://www.silfab.ca)

