



# SLA-M-HC

## Monocrystalline



# 320 Wp

# 120 Cell

## Monocrystalline PV Module

(Available 2019)



### 100% MAXIMUM POWER DENSITY

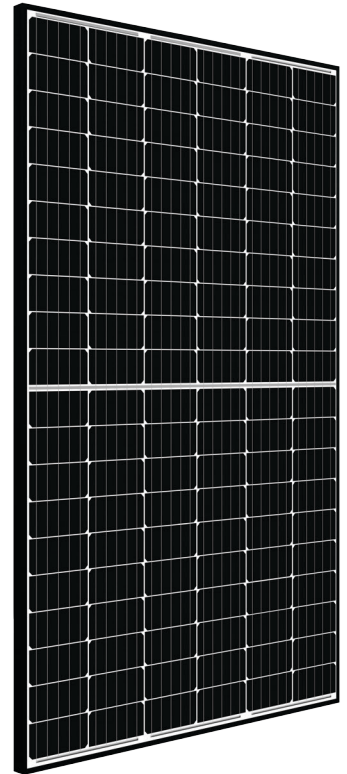
Silfab's SLA-M-HC 320 ultra-high-efficiency modules are optimized for both Residential and Commercial projects where maximum power density is preferred.

### 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

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

#### ADVANCED PERFORMANCE WARRANTY

30-year linear power performance guarantee

#### ENHANCED PRODUCT WARRANTY

25-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

#### PID RESISTANT

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

#### LIGHT AND DURABLE

Engineered to accommodate low load bearing structures, while boasting up to 5400 Pa snow load capabilities. Lightweight frame is exclusively designed with wide-ranging racking compatibility and durability in mind.

#### SUPERIOR POWER

Superior power density achieved through shorter current flow distances yielding reduced series resistance.

#### 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.

#### AVAILABLE WITH

Black Frame and Backsheet

\*12 year, extendable based on registration at [www.silfabsolar.com](http://www.silfabsolar.com)

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		1665 x 994 x 35
Maximum surface load (wind/snow)*	N/m <sup>2</sup>		5400
Hail impact resistance			Ø 25 mm at 83 km/h
Cells			120 - Si monocrystalline - 156.75 x 78.375 mm
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> ), MC4 compatible




Warranties		SILFAB SLA-M-HC Monocrystalline	
Module product workmanship warranty			25 years*
Linear power performance guarantee			30 years

Certifications		SILFAB SLA-M-HC Monocrystalline	
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
Factory			UL Fire Rating: Type 2 (Type 1 on request) ISO9001:2015

 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.silfab.com/downloads](http://www.silfab.com/downloads)



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



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