



BC Series SIL-320 BL



126 Cell Monocrystalline PV Module

INDUSTRY LEADING WARRANTY

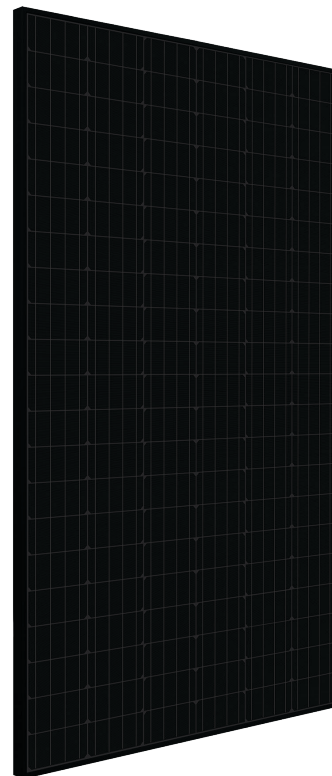
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

MAXIMUM ENERGY OUTPUT

Silfab BC Series utilizes next generation Back Contact technology to reduce production/manufacturing steps and improve quality while maximizing power. Ideal for 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.



CHUBB®

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

PROVIDES MAXIMUM EFFICIENCY

126 high-efficiency half-cut cells combined with a black conductive back-sheet resulting 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

Superior Power achieved through relocation of tabbing ribbon to reduce shading on module front surface.

AESTHETICALLY PLEASING

Sleek aesthetics from black cells to black back-sheet without tabbing or bus-bar ribbons, ideal for residential applications.

STABLE PERFORMANCE

Enhanced life-time performance through reduced thermal stresses and increased current flow paths.

PID RESISTANT

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

Electrical Specifications		SILFAB SIL-320 BL mono PERC MWT Technology	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	320	242.1
Maximum power voltage (Vpmax)	V	33.85	30.42
Maximum power current (Ipmax)	A	9.46	7.95
Open circuit voltage (Voc)	V	41.9	38.7
Short circuit current (Isc)	A	9.92	8.13
Module efficiency	%	18.8	17.8
Maximum system voltage (VDC)	V		1000
Series fuse rating	A		20
Power Tolerance	Wp		0/+10

Measurement conditions: STC 1000 W/m² • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • 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-320 BL mono PERC MWT Technology	
Temperature Coefficient Isc	%/°C		+0.031
Temperature Coefficient Voc	%/°C		-0.301
Temperature Coefficient Pmax	%/°C		-0.419
NOCT (± 2°C)	°C		40.6
Operating temperature	°C		-40/+85

Mechanical Properties and Components		SILFAB SIL-320 BL mono PERC MWT Technology	
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)*	Pa		4000 Pa rear load / 5400 Pa front load
Hail impact resistance			Ø 25 mm at 83 km/h
Cells			126 high-efficiency half-cut mono-PERC MWT c-Si cells
Glass			3.2 mm high transmittance, tempered, DSM antireflective coating
Backsheet			Multilayer, integrated insulation film and electrically conductive backsheet
Frame			Anodized Al (Black)
Bypass diodes			3 diodes-20SQ040 (45V, 20A)
Cables and connectors			1000 mm Ø 5.7 mm (4 mm ²), Multicontact MC4 connectors (refer to installation manual)
Junction Box			UL 3730 Certified, IP67 rated

Warranties		SILFAB SIL-320 BL mono PERC MWT Technology	
Module product workmanship warranty			25 years** 30 years
Linear power performance guarantee			≥ 97% end of 1 st year ≥ 90% end of 12 th year ≥ 82% end of 25 th year ≥ 80% end of 30 th year

Certifications		SILFAB SIL-320 BL mono PERC MWT Technology	
Product			ULC ORD C1703, UL 1703, FSEC and CEC listed. Product durability proven up to 3 x IEC, climate chamber tests up to DH3000–TC600–HF30 UL Fire Rating: Type 1
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.

⚠ 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



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