



BC Series SIL-320 BL



126 Cell Monocrystalline PV Module



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

INDUSTRY LEADING WARRANTY

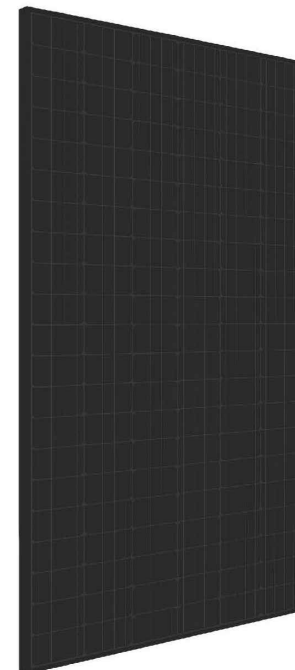
All our products include an industry leading 25-year product workmanship and 30-year performance warranty.

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.



PROVIDES MAXIMUM EFFICIENCY

126 high-efficiency half-cut cells combined with a black conductive back-sheet resulting in a maximum power.

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 utilized 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 Solar manufactures our PV modules in two automated locations within North America. Our 300+ North American team is ready to help our partners win the hearts and minds of customers, providing customer service and product delivery that is direct, efficient and local.

SUPERIOR POWER

Super power achieved through relocation of tabbing ribbon to reduce shading on module front service and circuit resistance.

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

Printed on recycled paper.

Electrical Specifications		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		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		SIL-320 BL mono PERC MWT Technology	
Module weight (± 1 kg)	kg		19.5
Dimensions (H x L x D; ± 1 mm)	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		SIL-320 BL mono PERC MWT Technology	
Module product workmanship warranty		25 years**	
		30 years	
		≥ 97% end of 1 st year	
		≥ 90% end of 12 th year	
		≥ 82% end of 25 th year	
		≥ 80% end of 30 th year	

Linear power performance guarantee

Certifications		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	
Factory		UL Fire Rating: Type 1 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.

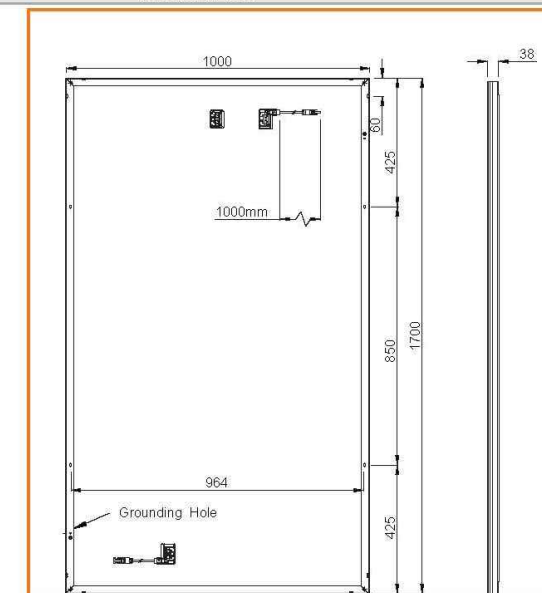
- Modules Per Pallet: 26
- Pallets Per Truck: 36
- Modules Per Truck: 936



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 | www.silfabsolar.com



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



SIL-320 BL-20190505 - No reproduction of any kind is allowed. Data and information is subject to modifications without notice. ©Silfab, 2019.



POWER HOME SOLAR, LLC
"POWER YOUR FUTURE"
919 N. MAIN ST.
MOORESVILLE, NC 28115
Phone: 704-800-6591 (OFFICE)
Email: info@powerhome.com
Web: www.powerhome.com

REVISIONS

DESCRIPTION	DATE	REV

Signature with Seal

DATE: 9/9/2020

PROJECT NAME & ADDRESS

MASAKO S GREEN
RESIDENCE
15519 PIEDMONT STREET,
DETROIT, MI 48223

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-6