

# BC Series SIL-370/375/380 BK

(Early 2021)

## HIGH EFFICIENCY PREMIUM MONO-PERC PV MODULE

### Back Contact Technology

#### ■ HIGHEST EFFICIENCY MODULE EXCLUSIVELY MANUFACTURED IN THE US

Advanced back-contact technology reduces front cell metallization minimizing conductive losses, mechanical stress and shading for improved performance, reliability and efficiency.

The reduced cell gap and elimination of external bussing boosts efficiency.

#### ■ SUPERIOR POWER, PERFORMANCE, DURABILITY

Optimized performance in low-light and in all weather conditions. Lower operating temperatures of the module enhance performance and energy yield.

#### ■ SLEEK & BEAUTIFUL AESTHETICS

Sleek triple black aesthetics (cells, frame and back-sheet) free from front tabbing or bus-bars make this module ideal for high-end residential solar installations.



#### ■ INDUSTRY LEADING WARRANTY

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

#### ■ 35+ YEARS OF SOLAR EXPERIENCE

Silfab Solar has the depth of experience and manufacturing expertise to ensure our partners have the latest product innovations for the North American market.

#### ■ QUALITY MATTERS

Total automation and 100% US manufacturing ensures strict quality control at our ISO certified facility.

#### ■ LIGHT AND DURABLE

Engineered and tested to accommodate wind load conditions up to 4000Pa uplift. Exclusively designed for wide-ranging racking compatibility, durability, and ease of installation.

#### ■ ENHANCED RELIABILITY

Improved reliability through reduced thermal stresses and lower operating temperatures.

#### ■ PID RESISTANT

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



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

Electrical Specifications		SIL-370/375/380 BK mono PERC MWT Technology					
		370		375		380	
Test Conditions		STC	NOCT	STC	NOCT	STC	NOCT
Module Power (Pmax)	Wp	370	276.52	375	280.27	380	284.04
Maximum power voltage (Vpmax)	V	37.80	35.39	38.06	35.64	38.32	35.88
Maximum power current (Ipmax)	A	9.79	7.81	9.85	7.86	9.92	7.92
Open circuit voltage (Voc)	V	45.08	42.26	45.39	42.55	45.69	42.84
Short circuit current (Isc)	A	10.35	8.34	10.42	8.40	10.49	8.45
Module efficiency	%	20.8	19.5	21.1	19.7	21.4	20.0
Maximum system voltage (VDC)	V	1000					
Series fuse rating	A	20					
Power Tolerance	Wp	0 to +10					

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 to +10W.

Temperature Ratings		SIL-370/375/380 BK mono PERC MWT Technology	
Temperature Coefficient Isc		+0.046 %/°C	
Temperature Coefficient Voc		-0.279 %/°C	
Temperature Coefficient Pmax		-0.377 %/°C	
NOCT (± 2°C)		43.5 °C	
Operating temperature		-40/+85 °C	

Mechanical Properties and Components		SIL-370/375/380 BK mono PERC MWT Technology	
		Metric	Imperial
Module weight		19.0±0.2 kg	41.9±0.4 lbs
Dimensions (H x L x D)		1795 mm x 990 mm x 38 mm	70.67 in x 39.98 in x 1.5 in
Maximum surface load (wind/snow)*		4000 Pa rear load / 5400 Pa front load	83.5/112.8 lb/ft <sup>2</sup>
Hail impact resistance		Ø 25 mm at 83 km/h	Ø 1 in at 51.6 mph
Cells		66 high efficiency back contact mono-PERC c-Si cells	66 high efficiency back contact mono-PERC c-Si cells
Glass		3.2 mm high transmittance, tempered, DSM anti-reflective coating	0.126 in high transmittance, tempered, DSM anti-reflective coating
Cables and connectors (refer to installation manual)		1200 mm Ø 5.7 mm, MC4 from Staubli	47.24 in, Ø 0.22 in, MC4 from Staubli

Backsheet	Multilayer, integrated insulation film and electrically conductive backsheet, superior hydrolysis and UV resistance, fluorine-free PV backsheet		
Frame	Anodized Aluminum (Black)		
Bypass diodes	3 diodes-30SQ045T (45V max DC blocking voltage, 30A max forward rectified current)		
Junction Box	UL 3730 Certified, IP67 rated		
<b>Warranties</b>	<b>SIL-370/375/380 BK mono PERC MWT Technology</b>		
Module product workmanship warranty	25 years**		
Linear power performance guarantee	30 years		
	≥ 97.1% end 1 <sup>st</sup> year   ≥ 91.6% end 12 <sup>th</sup> year   ≥ 85.1% end 25 <sup>th</sup> year   ≥ 82.6% end 30 <sup>th</sup> year		

Certifications		SIL-370/375/380 BK mono PERC MWT Technology	
Product	ULC ORD C1703***, UL1703***, CEC listed***, UL 61215-1/-1-1/-2***, UL 61730-1/-2***, IEC 61215-1/-1-1/-2***, IEC 61730-1/-2***, CSA C22.2#61730-1/-2***, IEC 62716 Ammonia Corrosion; IEC61701:2011 Salt Mist Corrosion Certified, UL Fire Rating: Type 1		
Factory	ISO9001:2015		

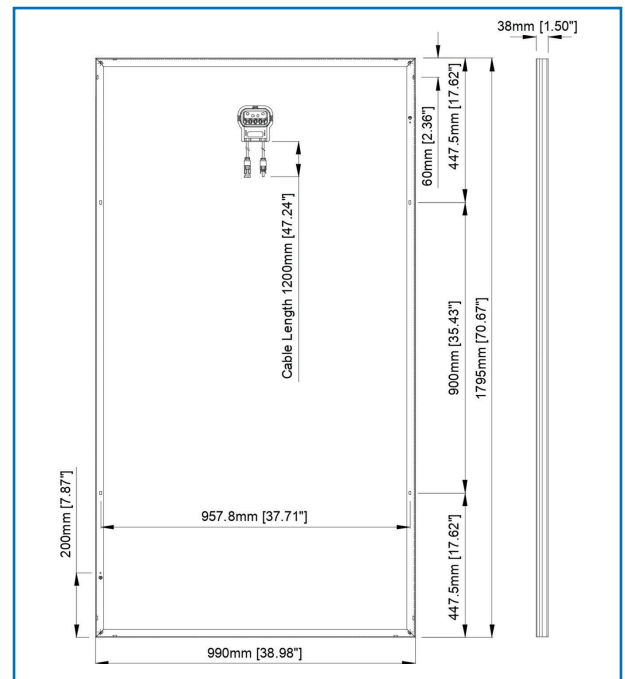
- Modules Per Pallet: 26
- Pallets Per Truck: 34
- Modules Per Truck: 884

\*⚠ Warning. Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules.

\*\*12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at [www.silfabsolar.com](http://www.silfabsolar.com).

\*\*\*Certification anticipated November 2020.

PAN files generated from 3rd party performance data are available for download at: [www.silfabsolar.com/downloads](http://www.silfabsolar.com/downloads).



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