



LUXEMBOURGISH BRAND 2024

BC BIFACIAL MODULES
108 CELL 470-485W High efficiency bifacial full black modules

HIGH EFFICIENCY BIFACIAL
MODULES

Module efficiency up to **23,76%**

WARRANTY

Limited Product Warranty **30**
years

Power Warranty **30**
years

Power Linear Warranty **88,85%**
for 30 years

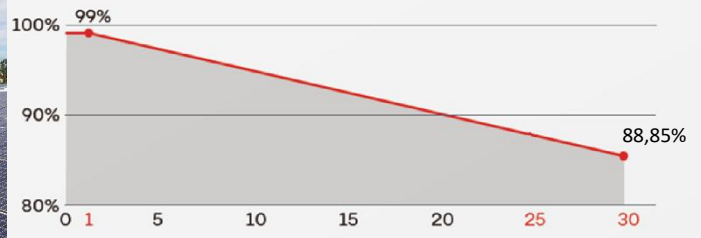
Best in Technology
BC Modules 480W

1,8 * 1,13 m

PROLINE LUXPROOF BC BIFACIAL MODULES

BACK CONTACT Technology

- ✓ 1% First year degradation
- ✓ 0.35% Linear Attenuation of 0.35% Per Year Within 30 Years
- ✓ 30 Years Product and Performance Warranty 88,85%





LUXEMBOURGISH BRAND 2024



PREMIUM PERFORMANCE WARRANTY 30 YEARS

BACK CONTACT BIFACIAL MODULE

108 CELL 480W BIFACIAL FULL BLACK

Module type	ELECTRICAL PERFORMANCE							
	SPDG470-BC108RL10		SPDG475-BC108RL10		SPDG480-BC108RL10		SPDG485-BC108RL10	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power - P_{max} [Wp] (1)	470	357	475	361	480	365	485	369
Maximum power voltage - V_{mp} [V]	33.29	31.60	33.40	31.71	33.51	31.82	33.62	31.93
Maximum power current - I_{mp} [A]	14.13	11.30	14.23	11.39	14.33	11.48	14.43	11.56
Open-circuit voltage - V_{oc} [V]	40.31	38.28	40.42	39.89	40.53	38.50	40.64	39.61
Short-circuit current - I_{sc} [A]	14.78	11.84	14.88	11.93	14.98	12.02	15.08	12.10
Module efficiency STC [%]	23.03		23.27		23.52		23.76	
Operating temperature	-40°C +/- 85°C							
Maximum system voltage	DC 1500V (IEC)							
Maximum series fuse rating	30 A							
Temperature coefficients of P_{max}	-0.26 %/C							
Temperature coefficients of V_{oc}	-0.20 %/C							
Temperature coefficients of I_{sc}	0.050 %/C							

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (ref. 475W Front)					
Pmax gain	5%	10%	15%	20%	25%
Peak power - P_{max} [W]	499	523	546	570	594
Maximum power voltage - V_{mp} [V]	33.40	33.40	33.40	33.40	33.40
Maximum power current - I_{mp} [A]	14.93	15.64	16.35	17.07	17.78
Open circuit voltage - V_{oc} [V]	40.42	40.42	40.42	40.42	40.42
Short circuit current - I_{sc} [A]	15.62	16.37	17.11	17.86	18.60

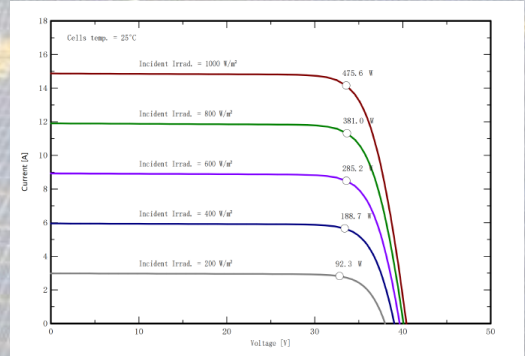
(1) Measurement tolerances: P_{max} (+/- 3%), I_{sc} & V_{oc} (+/- 3%)

(2) STC (Standard testing condition): irradiance 1000 W/m². Cell temperature 25°C, AM 1.5

(3) NOCT (Nominal operating cell temperature): irradiance 800 W/m². Ambient temperature 20°C, AM 1.5, Wind speed 1 m/s

MECHANICAL CHARACTERISTICS	
Front glass	2.0 mm semi-tempered glass
Back glass	1.6 mm semi-tempered glass
Solar cell	108 mm cell type back contact (BC)
Frame	Black anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Mechanical load	5400 Pa / 2400 Pa
Cables & plug connectors	Line length 1200mm, EVO2A
Module dimensions	1800 x 1134 x 30 mm
Module weight	23.5 kg

PACKING DETAILS	
Pieces per pallet	36 pcs
Pallets per container	24 pcs
Pieces per container	864 pcs / 40'HQ



SA 8000:2014 CERTIFICATION: Social responsibility management activities involved in the design, production and after-sales services of solar photovoltaic modules