

Polaris

475-500w

High efficiency bifacial modules

BC 182*96mm

• BC MODULE ADVANTAGE



Back Contact
Technology More
Power generation
under same area



Pure Black Appearance
Ultimate Aesthetics
Low Glare



Highest Efficiency
with the best
Energy Generation
Performance



Excellent
Low-light
performance



Lower Annual
Degradation
Longer Warranty



Low BOS
and LCOE



Anti-Shading and
Prevent Localized
Overheating



Low Carbon and
Environmentally
Friendly

• QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001 / IEC62941

• WARRANTY



Guarantee on product
material and workmanship



Linear power
output warranty

• INSURANCE

PKCC

• PRODUCT CERTIFICATION



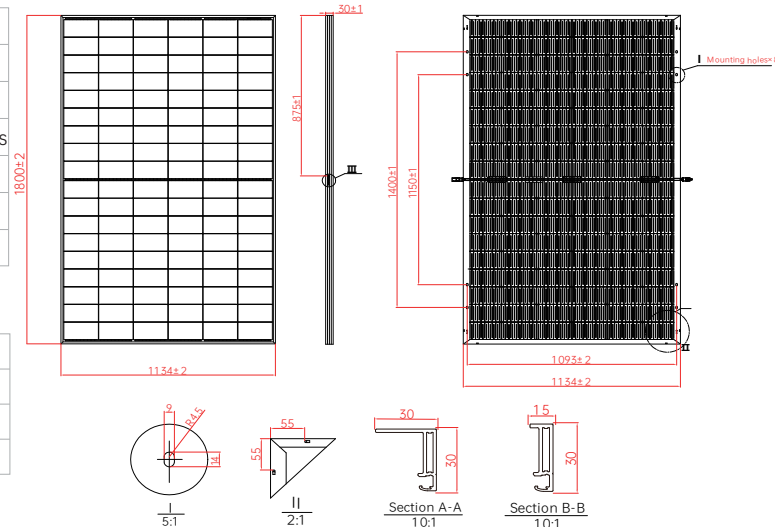
Mechanical Specifications

External Dimension	1800 x 1134 x 30 mm
Weight	23.5 kg
Solar Cells	108(6*18)
Front / Back Glass	2.0mm semi-tempered glass+1.6mm semi-tempered glass
Frame	Black anodized aluminium alloy
Junction Box	IP68, 3 diodes
Output Cables	4.0mm ² , 250mm(+)/350mm(-) or Customized Length

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	24
Pieces per Container	216	864

Technical drawing



Electrical Characteristics

Module Type	SRP-475-BBD-BG		SRP-480-BBD-BG		SRP-485-BBD-BG		SRP-490-BBD-BG		SRP-495-BBD-BG		SRP-500-BBD-BG	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -P _{mp} (W)	475	361	480	365	485	369	490	373	495	377	500	381
Open Circuit Voltage -V _{oc} (V)	40.42	38.39	40.53	38.50	40.64	38.61	40.75	38.73	40.86	38.84	40.97	38.95
Short Circuit Current -I _{sc} (A)	14.88	11.93	14.98	12.02	15.08	12.10	15.18	12.19	15.28	12.27	15.38	12.36
Maximum Power Voltage -V _{mp} (V)	33.40	31.71	33.51	31.82	33.62	31.93	33.73	32.05	33.84	32.16	33.95	32.27
Maximum Power Current -I _{mp} (A)	14.23	11.39	14.33	11.48	14.43	11.56	14.53	11.65	14.63	11.73	14.73	11.82
Module Efficiency STC-η _m (%)	23.3		23.5		23.8		24.0		24.3		24.5	
Power Tolerance (W)	(0, 4.99)											

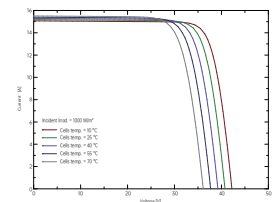
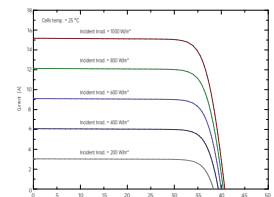
STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5 Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

NOCT: Irradiance 800 W/m² ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%; Voltage measurement tolerance: +/-3%; Current measurement tolerance: +/-4%

Rear Side Power Gain(SRP-480-BBD-BG)

Power Gain	5%	10%	15%	20%	25%
Maximum Power -P _{mp} (W)	504	528	552	576	600
Open Circuit Voltage -V _{oc} (V)	40.53	40.53	40.63	40.63	40.63
Short Circuit Current -I _{sc} (A)	15.73	16.48	17.23	17.98	18.73
Maximum Power Voltage -V _{mp} (V)	33.51	33.51	33.61	33.61	33.61
Maximum Power Current -I _{mp} (A)	15.04	15.76	16.42	17.14	17.85

I-V Curve



Temperature Ratings

Pmax Temperature Coefficient	-0.26 %/°C
Voc Temperature Coefficient	-0.20 %/°C
Isc Temperature Coefficient	+0.050 %/°C

Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30 A
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C
Bifaciality	70%±5%
Mechanical Load	Front side 5400 Pa / Back side 2400 Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Warranty

