



**Tier1**

BloombergNEF

Power the Future

# BC BIFACIAL MODULES

## 470-485W

High efficiency bifacial modules

· Full Black



Residential



C&I

Module efficiency

# 23.76%



Excellent  
Micro-crack Resistance



Superior  
Temperature Coefficient

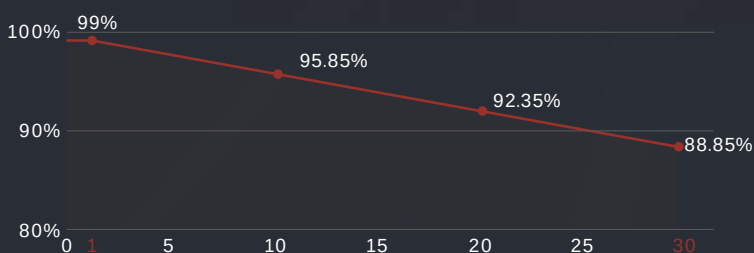


Higher  
Generated Energy



Partial  
Shading Optimisation

Linear performance warranty of 30 years



### WARRANTY

Quality  
Guarantee

**30**  
Years

Power  
Warranty

**30**  
Years



Ariel Green

## ELECTRIC CHARACTERISTICS

## SPDG(470 / 485)-BC108RL10

| Model of modules              | SPDG470-BC108RL10 |       | SPDG475-BC108RL10 |       | SPDG480-BC108RL10 |       | SPDG485-BC108RL10 |       |
|-------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|
|                               | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  | STC               | NMOT  |
| Power maximum ( Pmax/W )      | 470               | 357   | 475               | 361   | 480               | 365   | 485               | 369   |
| Maximum power voltage ( Vmp ) | 33.29             | 31.60 | 33.40             | 31.71 | 33.51             | 31.82 | 33.62             | 31.93 |
| Maximum power current ( Imp ) | 14.13             | 11.30 | 14.23             | 11.39 | 14.33             | 11.48 | 14.43             | 11.56 |
| Open circuit voltage ( Voc )  | 40.31             | 38.28 | 40.42             | 39.89 | 40.53             | 38.50 | 40.64             | 39.61 |
| Short circuit current ( Isc ) | 14.78             | 11.84 | 14.88             | 11.93 | 14.98             | 12.02 | 15.08             | 12.10 |
| Module efficiency             | 23.03%            |       | 23.27%            |       | 23.52%            |       | 23.76%            |       |

**STC** (Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup>, Cells Temperature 25°C )

**NMOT** ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s )

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 475W FRONT)

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Pmax gain                     | 5%    | 10%   | 15%   | 20%   | 25%   |
| Power maximum ( Pmax/W )      | 499   | 523   | 546   | 570   | 594   |
| Maximum power voltage ( Vmp ) | 33.40 | 33.40 | 33.40 | 33.40 | 33.40 |
| Maximum power current ( Imp ) | 14.93 | 15.64 | 16.35 | 17.07 | 17.78 |
| Open circuit voltage ( Voc )  | 40.42 | 40.42 | 40.42 | 40.42 | 40.42 |
| Short circuit current ( Isc ) | 15.62 | 16.37 | 17.11 | 17.86 | 18.60 |

## STRUCTURAL CHARAC

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Module size (L*W*H)   | 1800×1134×30mm                                            |
| Weight                | 23.5kg                                                    |
| Cell                  | 108(6x18)                                                 |
| Front glass           | 2.0mm semi-tempered glass                                 |
| Back glass            | 1.6mm semi-tempered glass                                 |
| Frame                 | Black anodized aluminum alloy frame                       |
| Junction box          | IP68                                                      |
| Output wire           | 4mm <sup>2</sup>                                          |
| Wire length           | Line length 1200mm / customized                           |
| Connector             | EVO2A                                                     |
| Packing specification | 36pcs per pallet / 216 pcs per 20' GP / 864pcs per 40' HC |

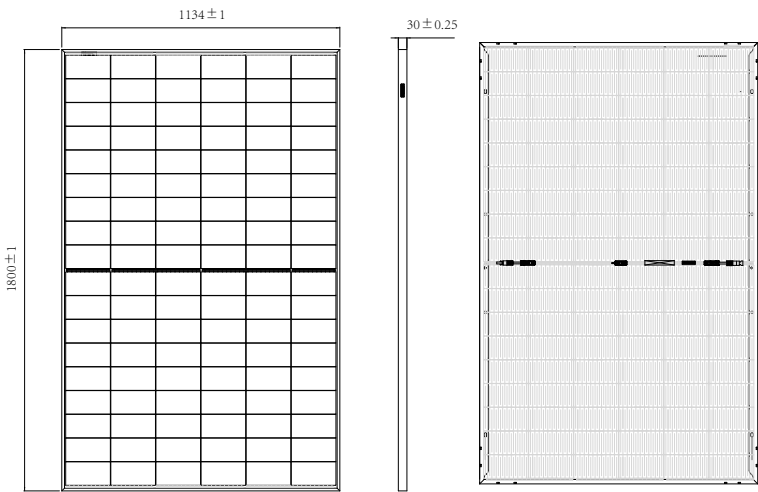
## OPERATING PARAMETERS

|                                   |                 |
|-----------------------------------|-----------------|
| Power tolerance (W)               | (0~+5w)         |
| Maximum system voltage (V)        | DC1500V(IEC)    |
| Maximum rated fuse current (A)    | 30A             |
| Current operating temperature (C) | -40°C~+85°C     |
| Mechanical load                   | +5400Pa/-2400Pa |

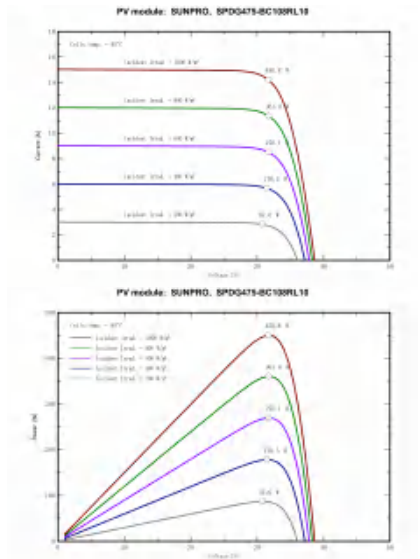
## TEMPERATURE CHARACTERISTICS

|                                  |            |
|----------------------------------|------------|
| Temp. Coeff. of Isc (TK Isc)     | +0.050%/°C |
| Temp. Coeff. of Voc (TK Voc)     | -0.200%/°C |
| Temp. Coeff. of Pmax (TK Pmax)   | -0.260%/°C |
| Normal Operting Cell Temperature | 45±2°C     |

## MODULE DIMENSIONS(MM)



## I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



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\*The above parameters are for reference only, and the actual parameters of the factory shall prevail