



Tier1

BloombergNEF

Power the Future

BC BIFACIAL MODULES

445-485W

High efficiency bifacial modules

· Full Black



Residential



C&I

Module efficiency

24.34%

German Guarantee 



Excellent
Micro-crack Resistance



Superior
Temperature Coefficient



Higher
Generated Energy



Partial
Shading Optimisation

Linear performance warranty of 30 years



WARRANTY

Quality
Guarantee

25
Years

Power
Warranty

30
Years



Ariel Green

ELECTRIC CHARACTERISTICS

SPDG(445/485)-BC108R10

Model of modules	SPDG445-BC108R10		SPDG450-BC108R10		SPDG455-BC108R10		SPDG460-BC108R10		SPDG465-BC108R10		SPDG470-BC108R10		SPDG475-BC108R10		SPDG480-BC108R10		SPDG485-BC108R10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power (Pmax/W)	445	335	450	339	455	339	460	346	465	350	470	354	475	358	480	362	485	366
Maximu power current (Vmp)	34.44	32.52	34.50	32.58	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81	34.80	32.86	34.86	32.92	34.92	32.98
Maximu power current (Imp)	12.93	10.32	13.05	10.41	13.17	10.51	13.29	10.61	13.41	10.71	14.32	10.80	13.66	10.90	13.78	11.00	13.90	11.10
Open circuit voltage (Voc)	40.88	38.60	40.94	38.66	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89	41.24	38.95	41.30	39.01	41.36	39.07
Short circuitcurrent (Isc)	14.02	11.34	14.12	11.42	14.22	11.50	14.25	11.52	14.29	11.55	13.54	11.58	14.36	11.62	14.41	11.66	14.47	11.70
Module efficiency	22.33%		22.59%		22.84%		23.09%		23.34%		23.59%		23.84%		24.09%		24.34%	

STC (Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m², Cells Temperature25°C)

NMOT (Irradiance 800W/m², Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s)

BNPI (1000 W/m² on the module front, and 135 W/m² on the module rear)

Power (Pmax/W)	487	493	498	503	509	514	520	525	531
Maximu power voltage (Vmp)	34.46	34.52	34.58	34.64	34.70	34.76	34.82	34.88	34.94
Maximu power current (Imp)	14.13	14.27	14.40	14.53	14.67	14.80	14.93	15.06	15.19
Open circuit voltage (Voc)	40.90	40.96	41.02	41.08	41.14	41.20	41.26	41.32	41.38
Short circuitcurrent (Isc)	15.34	15.45	15.56	15.59	15.63	15.67	15.71	15.76	15.83

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1757x1134x30mm
Weight	24.2kg
Cell	108 cells, N-type BC Technology, 182mm ×94mm
Front glass	2.0mm , Anti-Reflection Coating
Back glass	2.0mm , Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68 , 3 bypass diodes
Output wire	4mm ²
Wire length	Line length 1100mm/customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet ; 936 pcs/40'HQ

OPERATING PARAMETERS

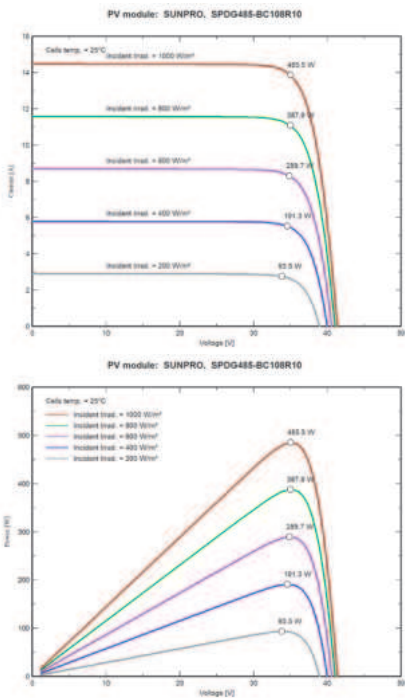
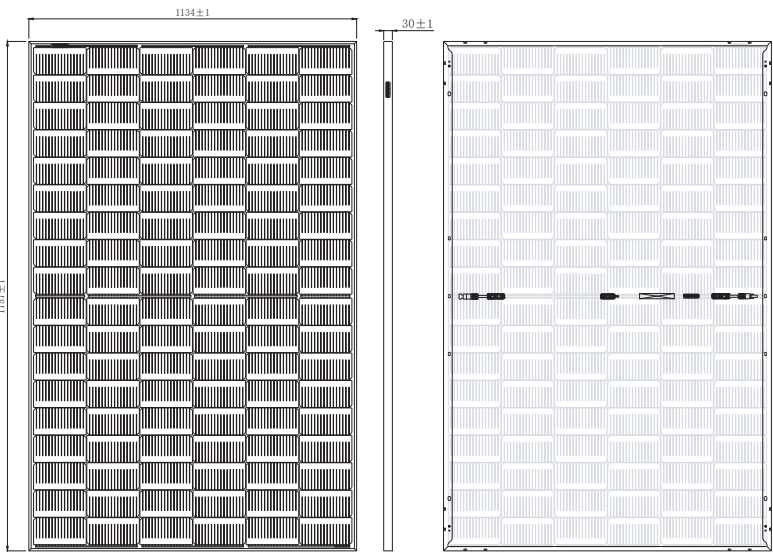
Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	1500V
Maximum rated fuse current (A)	25A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	+0.05% / °C
Temp. Coeff. of Voc (TK Voc)	-0.22% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.26% / °C
Normal Operting Cell Temperature	43±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