

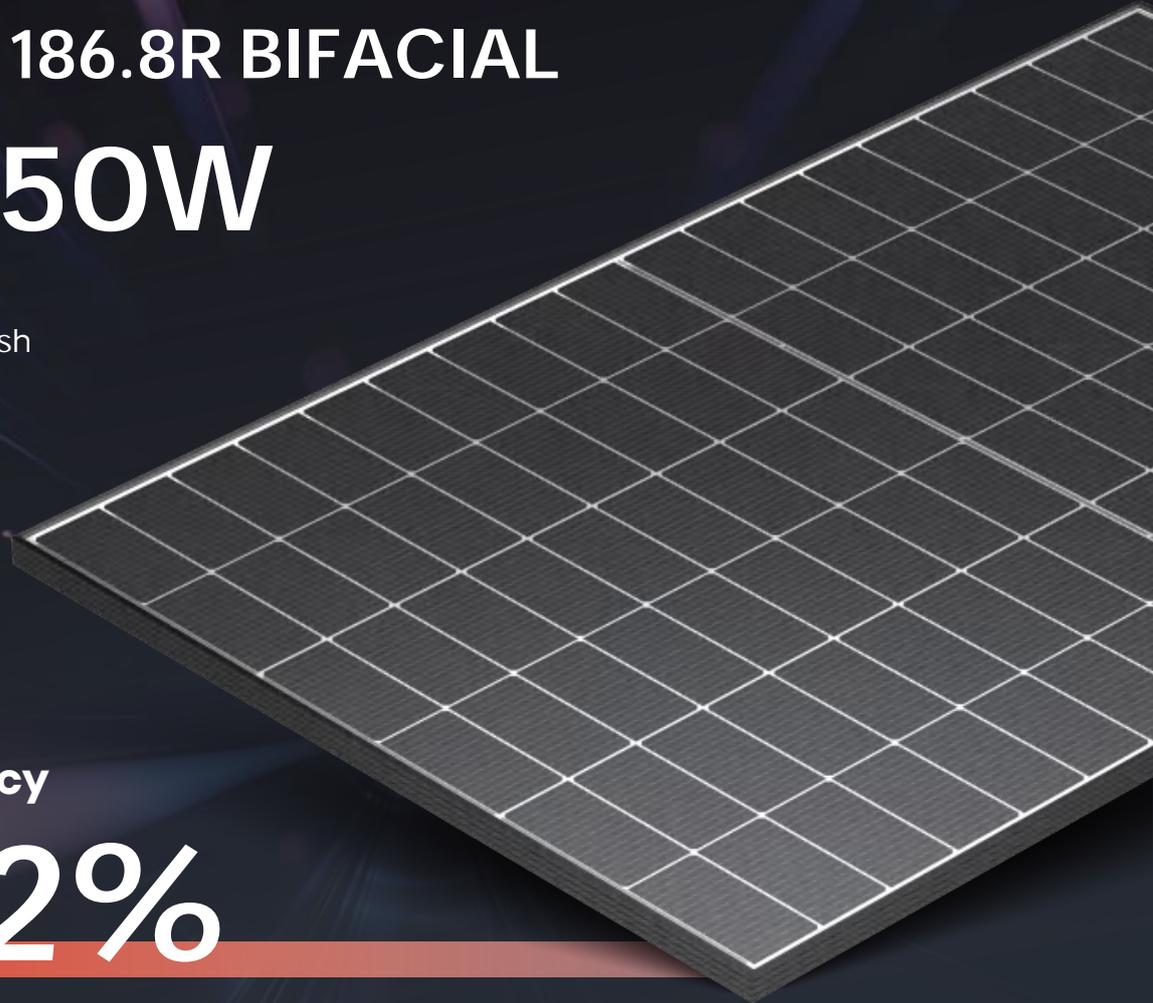


Tier1

BloombergNEF
Power the future

TOPCon 186.8R BIFACIAL 435-450W

· Black frame, White mesh

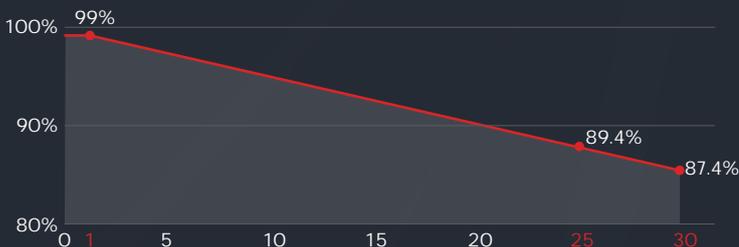


 UTILITY

 C&I

Module efficiency

22.52%



WARRANTY

Quality Guarantee **25** years

Power Warranty **30** years

CERTIFICATE



Ariet Green



Model of modules	SPDG435-N108R10		SPDG440-N108R10		SPDG445-N108R10		SPDG450-N108R10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power (Pmax/W)	435	328.60	440	332.40	445	336.50	450	340.30
Maximum power voltage (Vmp)	32.41	30.8	32.60	31	32.79	31.2	32.98	31.3
Maximum power current (Imp)	13.43	10.68	13.50	10.73	13.58	10.8	13.65	10.86
Open circuit voltage (Voc)	39.09	36.9	39.27	37.1	39.45	37.3	39.63	37.5
Short circuit current (Isc)	13.98	11.27	14.05	11.32	14.13	11.39	14.21	11.45
Module efficiency	21.77%		22.02%		22.27%		22.52%	

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)

ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

Front power Pmax/W	500.25	506.00	511.75	517.50
Maximum power voltage (Vmp)	32.41	32.60	32.79	32.98
Maximum power current (Imp)	15.44	15.52	15.61	15.69
Open circuit voltage (Voc)	39.09	39.27	39.45	39.63
Short circuit current (Isc)	16.08	16.16	16.25	16.34

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1762x1134x30mm
Weight	23.8kg
Cell	108 cells,N type Mono-Crystalline , 182mm×93.4mm
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 ; 936pcs/40' HQ

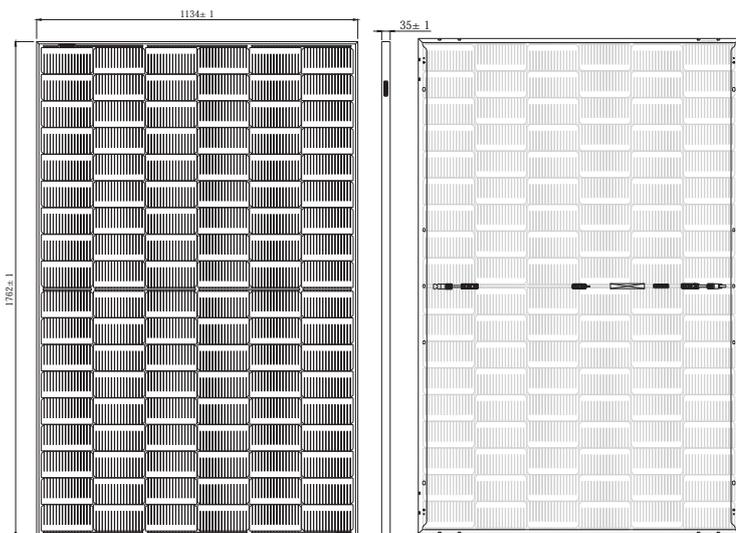
OPERATING PARAMETERS

Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	1500V
Maximum rated fuse current (A)	30A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

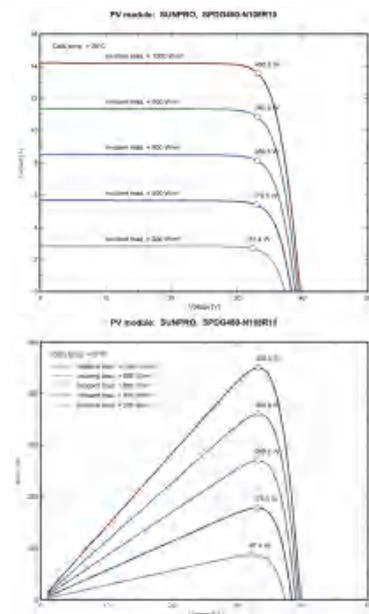
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.046% / °C
Temp. Coeff. of Voc (TK Voc)	-0.25% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.30% / °C
Normal Operating 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