



Tier1

BloombergNEF

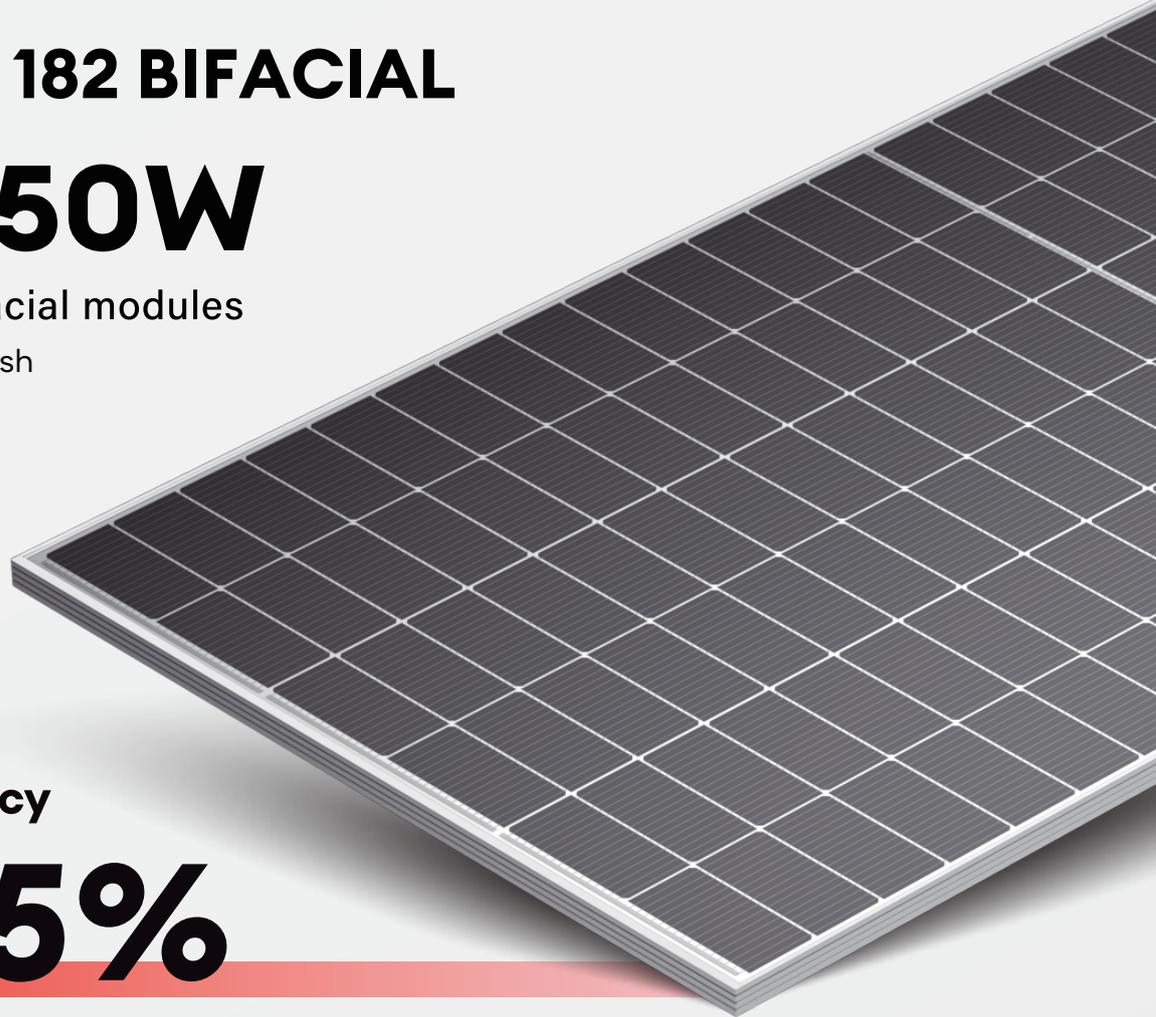
Power the future

TOPCon 182 BIFACIAL

630-650W

High efficiency bifacial modules

· Silver frame, White mesh



 UTILITY

 C&I

Module efficiency

23.25%



Better leveled cost of energy



Better high temperature stability

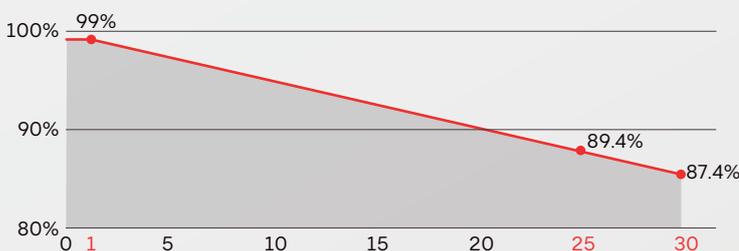


Improved low-light performance



Excellent bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality Guarantee **25** years

Power Warranty **30** years

CERTIFICATE



Ariel Green



ELECTRIC CHARACTERISTICS

SPDG (630/650W)-N156M10

Model of modules	SPDG630-N156M10		SPDG635-N156M10		SPDG640-N156M10		SPDG645-N156M10		SPDG650-N156M10	
	STC	NMOT								
Power (Pmax/W)	630	475.10	635	479.10	640	483.20	645	487.10	650	490.90
Maximum power voltage (Vmp)	45.96	43.50	46.06	43.70	46.16	43.80	46.24	44.00	46.33	44.10
Maximum power current (Imp)	13.71	10.92	13.79	10.97	13.87	11.03	13.95	11.08	14.03	11.14
Open circuit voltage (Voc)	55.84	52.70	55.99	52.90	56.14	53.00	56.29	53.20	56.43	53.30
Short circuit current (Isc)	14.38	11.59	14.45	11.64	14.52	11.70	14.59	11.76	14.66	11.81
Module efficiency	22.54%		22.72%		22.90%		23.07%		23.25%	

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	724.50	730.25	736.00	741.75	747.50
Maximum power voltage (Vmp)	45.96	46.06	46.16	46.24	46.33
Maximum power current (Imp)	15.76	15.85	15.94	16.04	16.13
Open circuit voltage (Voc)	55.84	55.99	56.14	56.29	56.43
Short circuit current (Isc)	16.54	16.62	16.70	16.78	16.86

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2465x1134x35mm
Weight	33.6kg
Cell	156 cells,N type Mono-Crystalline , 182mm×91mm
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 1400mm/customized
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet ; 496 pcs/40' HQ

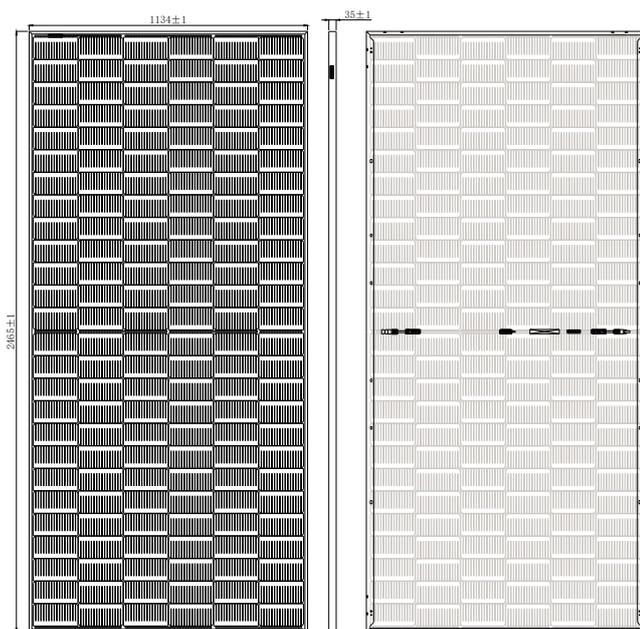
OPERATING PARAMETERS

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

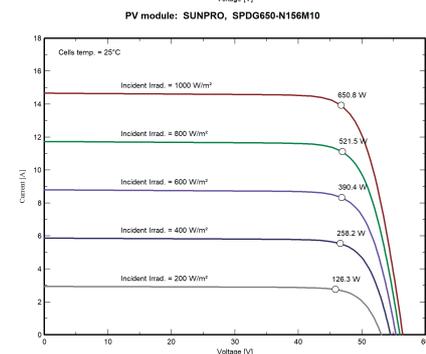
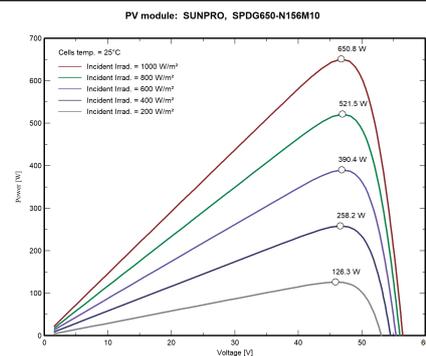
TEMPERATURE CHARACTERISTICS

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