



Tier1

BloombergNEF

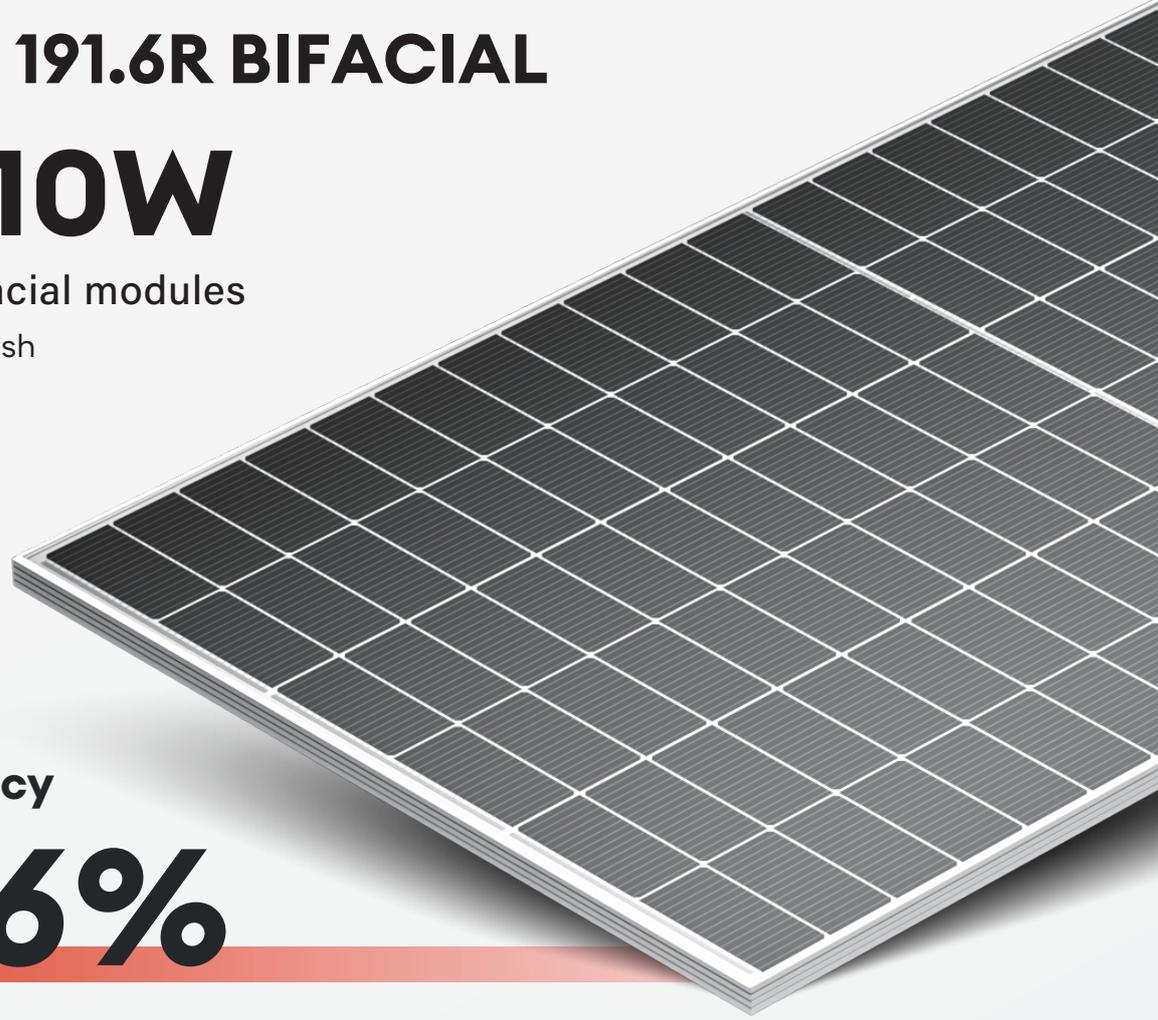
Power the future

TOPCon 191.6R BIFACIAL

595-610W

High efficiency bifacial modules

· Silver frame, White mesh



 UTILITY

 C&I

Module efficiency

22.56%



Better leveled cost of energy



Better high temperature stability

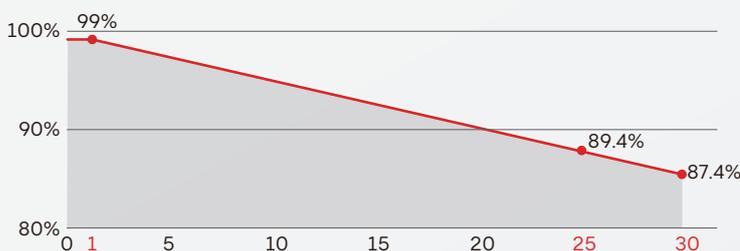


Improved low-light performance



Excellent bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality Guarantee **25** years

Power Warranty **30** years

CERTIFICATE



ELECTRIC CHARACTERISTICS

SPDG (595/610W)-N144RL10

Model of modules	SPDG595-N144RL10		SPDG600-N144RL10		SPDG605-N144RL10		SPDG610-N144RL10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power (Pmax/W)	595	448.40	600	452.40	605	456.40	610	460.50
Maximum power voltage (Vmp)	43.53	40.40	43.74	40.60	43.94	40.70	44.14	41.00
Maximum power current (Imp)	13.67	11.11	13.72	11.15	13.77	11.20	13.82	11.24
Open circuit voltage (Voc)	51.33	48.40	51.54	48.60	51.74	48.80	51.94	49.10
Short circuit current (Isc)	14.55	11.72	14.60	11.76	14.66	11.81	14.71	11.85
Module efficiency	22.01%		22.19%		22.38%		22.56%	

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	684.25	690.00	695.75	701.50
Maximum power voltage (Vmp)	43.53	43.74	43.94	44.14
Maximum power current (Imp)	15.72	15.78	15.83	15.89
Open circuit voltage (Voc)	51.33	51.54	51.74	51.94
Short circuit current (Isc)	16.73	16.79	16.86	16.92

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2382x1134x35mm
Weight	32.4kg
Cell	144 cells,N type Mono-Crystalline , 182.2mm×95.8mm
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 1300mm/customized
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet ; 620 pcs/40' HQ

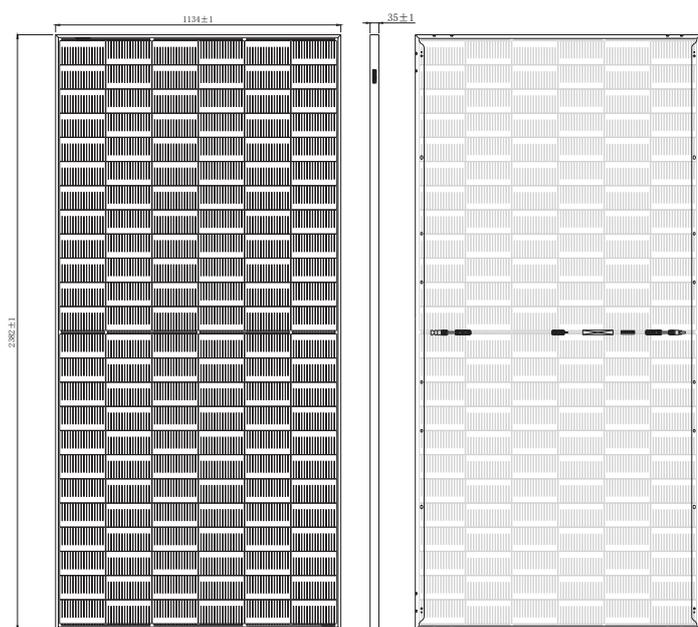
OPERATING PARAMETERS

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

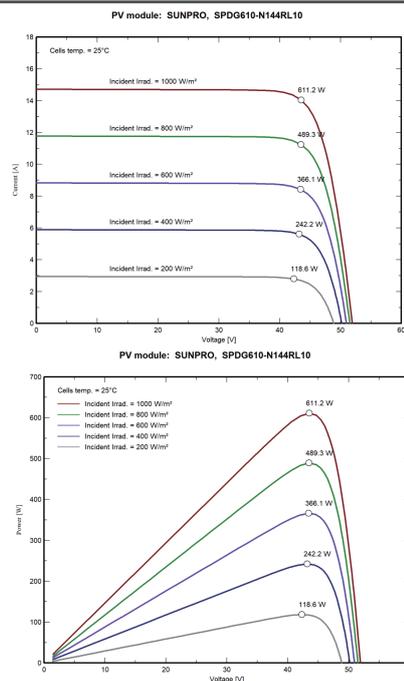
TEMPERATURE CHARACTERISTICS

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