



**Tier1**

BloombergNEF

# 186.8R TOPCon BIFACIAL

# 485-500W

High efficiency bifacial modules



Module efficiency

# 22.55%



WITHSTAND STRONG



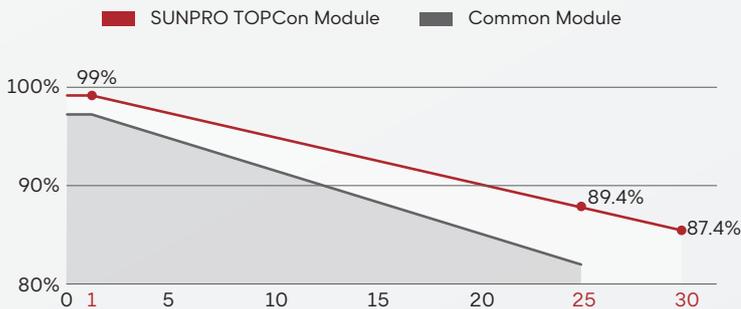
PID RESISTANCE



AUTOMATIC PRODUCTION



HIGH EFFICIENCY



## WARRANTY

Quality Guarantee **25** years

Power Warranty **30** years

## CERTIFICATE



## ELECTRIC CHARACTERISTICS

## SPDG (485/500W)-N120R10

Model of modules	SPDG485-N120R10		SPDG490-N120R10		SPDG495-N120R10		SPDG500-N120R10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power ( Pmax/W )	485	366.2	490	370	495	374	500	377.80
Maximu power current ( Vmp )	36.04	34.2	36.19	34.4	36.35	34.5	36.53	34.70
Maximu power current ( Imp )	13.46	10.71	13.54	10.77	13.62	10.83	13.69	10.90
Open circuit voltage ( Voc )	43.43	41	43.57	41.2	43.72	41.3	43.87	41.50
Short circuitcurrent ( Isc )	14.02	11.30	14.09	11.36	14.17	11.42	14.25	11.48
Module efficiency	21.88%		22.10%		22.33%		22.55%	

STC ( Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m<sup>2</sup>, Cells Temperature25°C )

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

## ELECTRICAL CHARACTERISTICS WITH 15% REAR SIDE POWER GAIN

Front power Pmax/W	557.75	563.50	569.25	575.00
Maximu power voltage ( Vmp )	36.04	36.19	36.35	36.53
Maximu power current ( Imp )	15.48	15.57	15.66	15.74
Open circuit voltage ( Voc )	43.43	43.57	43.72	43.87
Short circuitcurrent ( Isc )	16.12	16.20	16.30	16.39

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1955x1134x30mm
Weight	26.5kg
Cell	120 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 <sup>2</sup>
Wire length	Line length 1100mm/customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet ; 864pcs/40' HQ

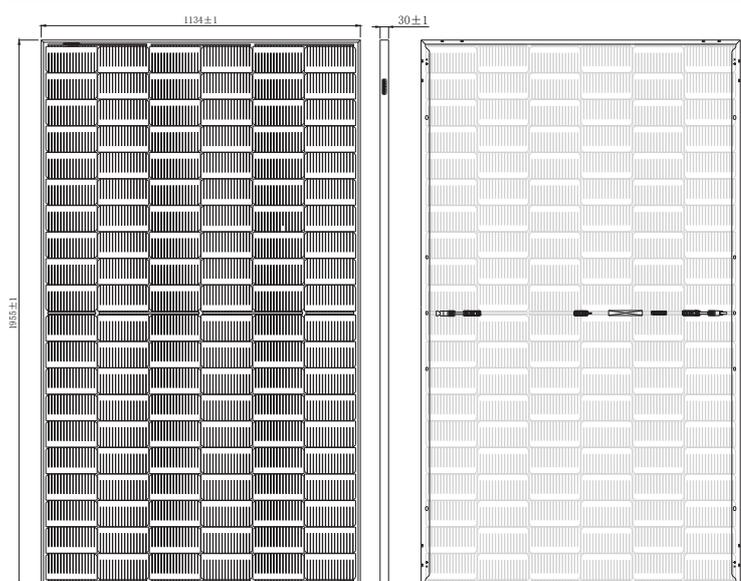
## OPERATING PARAMETERS

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

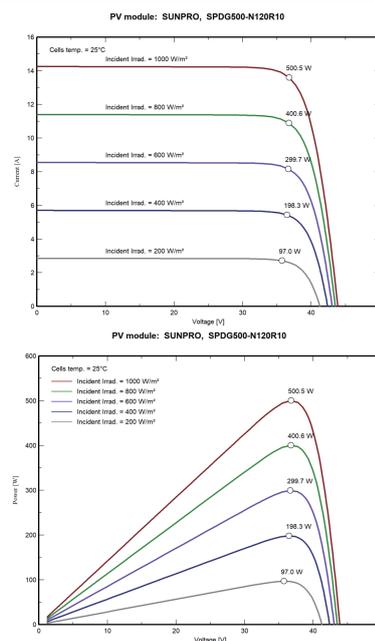
## TEMPERATURE CHARACTERISTICS

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 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