

**Tier1**

BloombergNEF

# 191.6R TOPCon BIFACIAL

# 595-610W

High efficiency bifacial modules



Module efficiency

# 22.56%



WITHSTAND STRONG



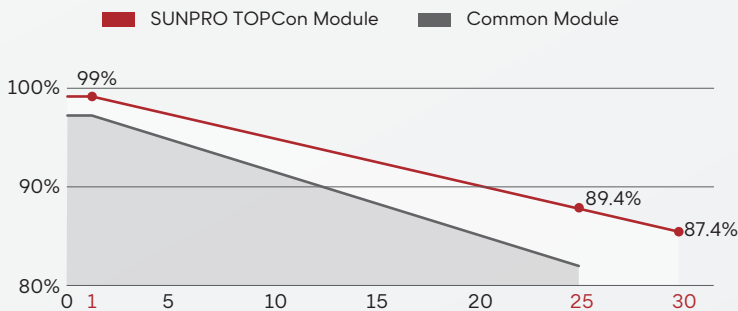
PID RESISTANCE



AUTOMATIC PRODUCTION



HIGH EFFICIENCY



## 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
Maximu power current ( Vmp )	43.53	40.40	43.74	40.60	43.94	40.70	44.14	41.00
Maximu 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 circuitcurrent ( 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/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	684.25	690.00	695.75	701.50
Maximu power voltage ( Vmp )	43.53	43.74	43.94	44.14
Maximu power current ( Imp )	15.72	15.78	15.83	15.89
Open circuit voltage ( Voc )	51.33	51.54	51.74	51.94
Short circuitcurrent ( Isc )	16.73	16.79	16.86	16.92

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2382x1134x30mm
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 <sup>2</sup>
Wire length	Line length 1300mm/customized
Connector	MC4 Compatible
Packing Specification	37 pcs/Pallet ; 740 pcs/40' HQ

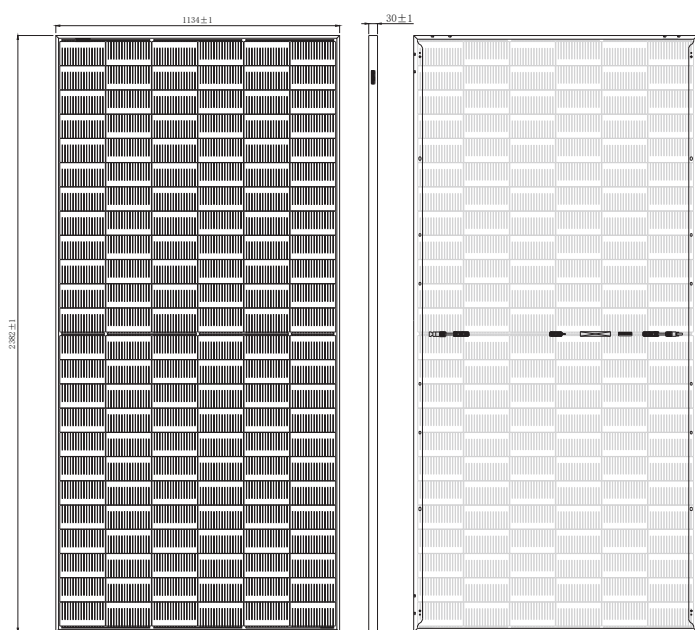
## OPERATING PARAMETERS

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

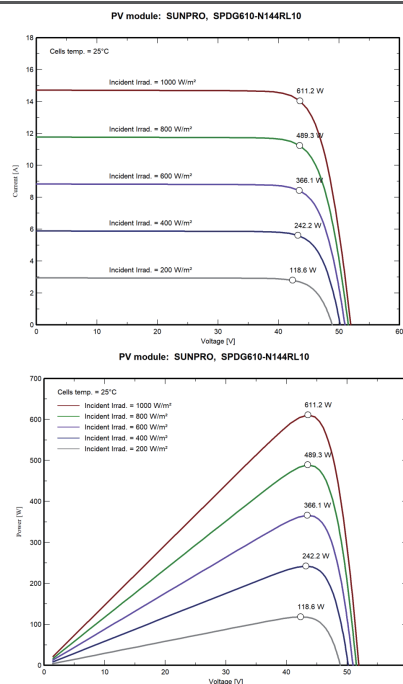
## TEMPERATURE CHARACTERISTICS

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 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