



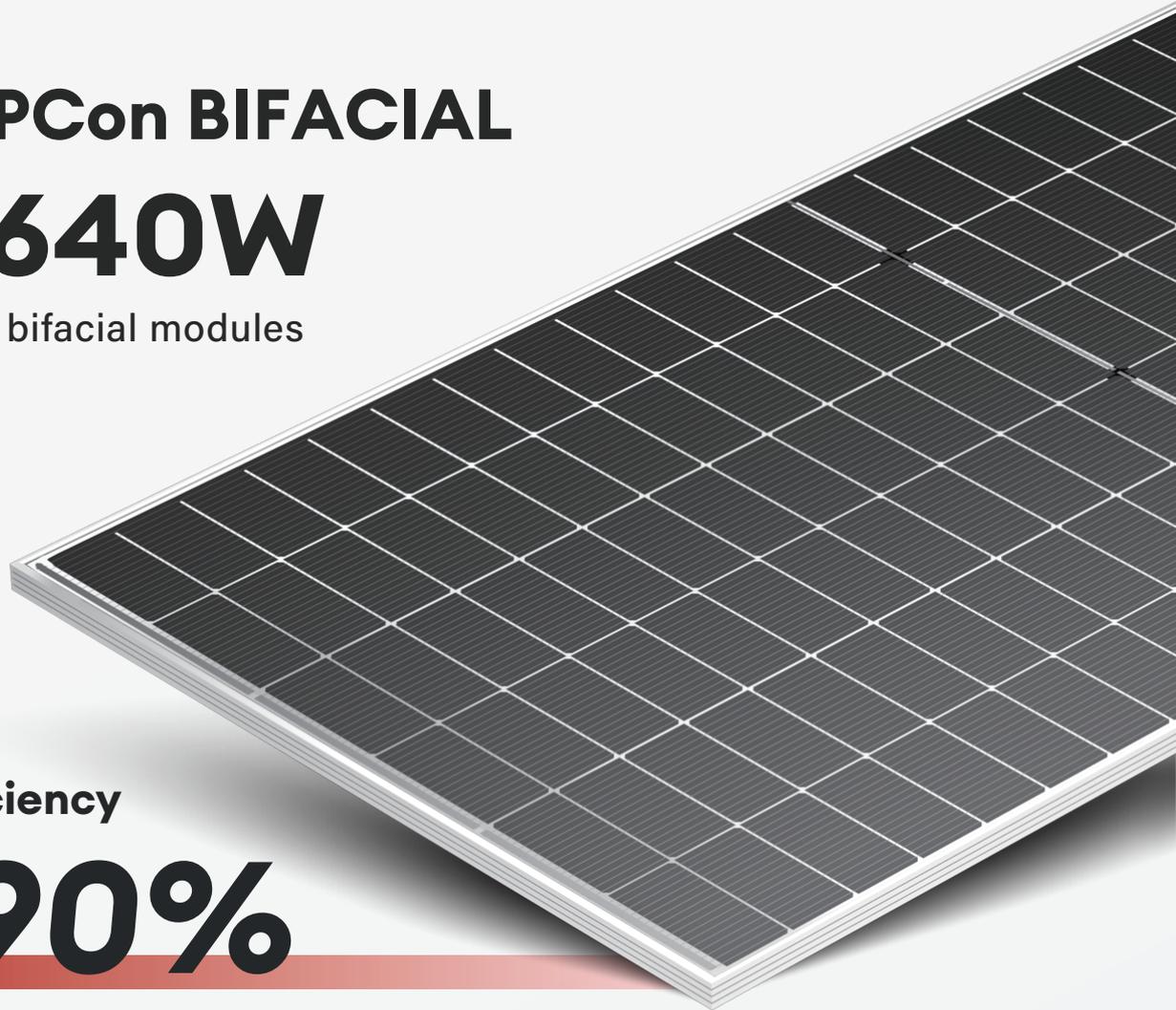
**Tier1**

BloombergNEF

# 199R TOPCon BIFACIAL

# 625-640W

High efficiency bifacial modules



Module efficiency

# 22.90%



WITHSTAND STRONG



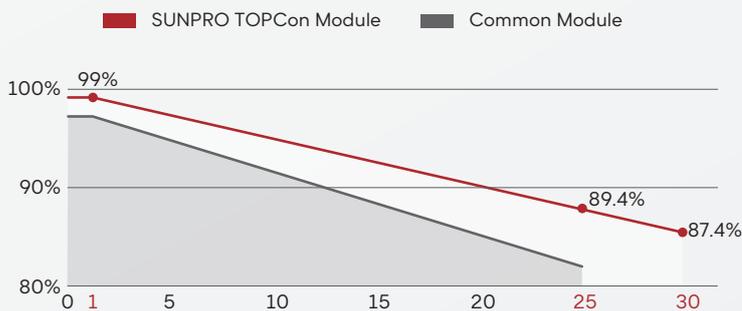
PID RESISTANCE



AUTOMATIC PRODUCTION



HIGH EFFICIENCY



## WARRANTY

Quality Guarantee **25** years

Power Warranty **30** years

## CERTIFICATE



## ELECTRIC CHARACTERISTICS

## SPDG (625/640W)-N144RX10

Model of modules	SPDG625-N144RX10		SPDG630-N144RX10		SPDG635-N144RX10		SPDG640-N144RX10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power ( Pmax/W)	625	471.60	630	475.40	635	479.50	640	483.40
Maximu power voltage ( Vmp )	43.68	41.00	43.88	41.10	44.07	41.30	44.26	41.50
Maximu power current ( Imp )	14.31	11.52	14.36	11.56	14.41	11.60	14.46	11.64
Open circuit voltage ( Voc )	52.25	49.40	52.45	49.60	52.65	49.80	52.85	50.00
Short circuit current ( Isc )	15.13	12.19	15.18	12.23	15.23	12.27	15.28	12.31
Module efficiency	22.36%		22.54%		22.72%		22.90%	

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	718.75	724.50	730.25	736.00
Maximu power voltage ( Vmp )	43.68	43.88	44.07	44.26
Maximu power current ( Imp )	16.45	16.51	16.57	16.63
Open circuit voltage ( Voc )	52.25	52.45	52.65	52.85
Short circuit current ( Isc )	17.40	17.46	17.51	17.57

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2465x1134x35mm
Weight	33.6kg
Cell	144 cells,N type Mono-Crystalline , 182.2mm×99.5mm
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 1400mm/customized
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet ; 496 pcs/40' HQ

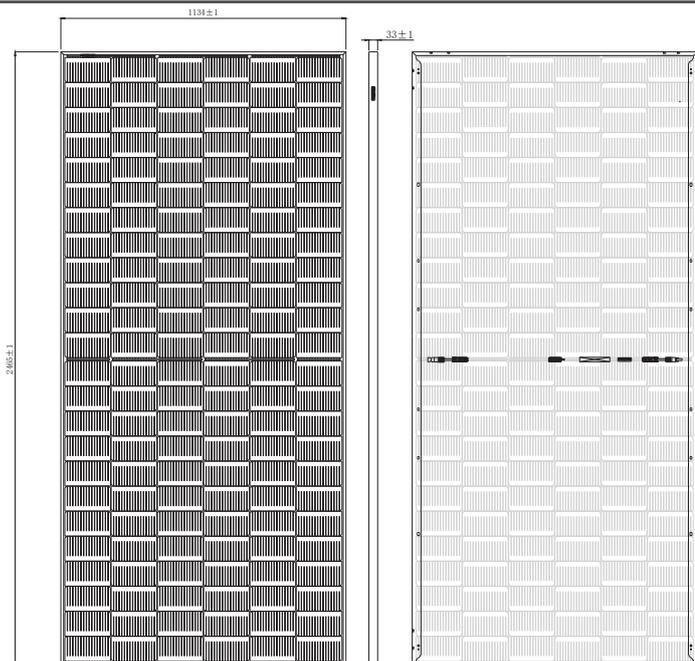
## OPERATING PARAMETERS

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

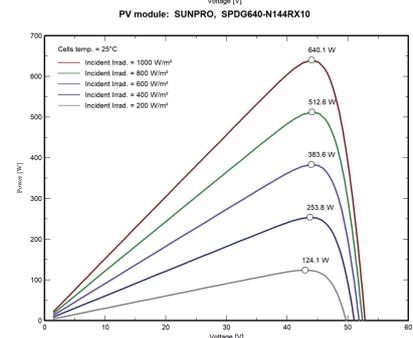
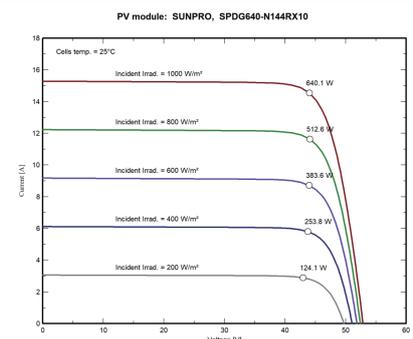
## TEMPERATURE CHARACTERISTICS

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