



**Tier1**

BloombergNEF

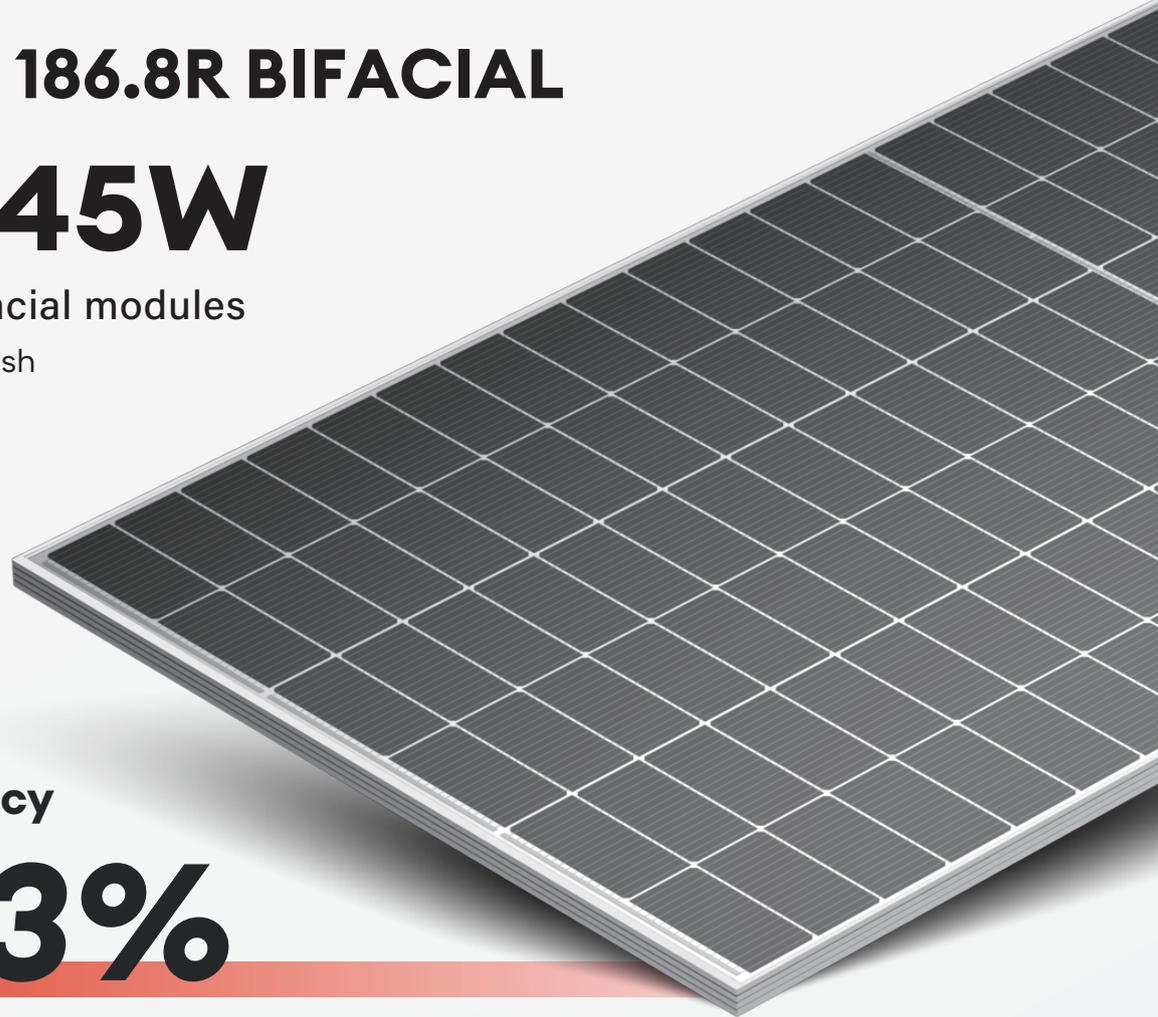
*Power the future*

# TOPCon 186.8R BIFACIAL

# 630-645W

High efficiency bifacial modules

· Silver frame, White mesh



 UTILITY

 C&I

Module efficiency

# 22.53%



Better leveled cost of energy



Better high temperature stability

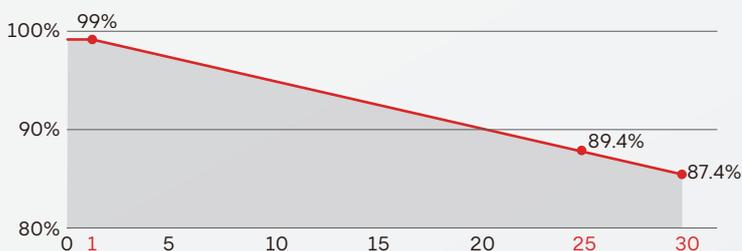


Improved low-light performance



Excellent bifacial performance

Linear performance guarantee for 30 years



## WARRANTY

Quality Guarantee **25 years**

Power Warranty **30 years**

## CERTIFICATE



Ariel Green



## ELECTRIC CHARACTERISTICS

## SPDG (630/645W)-N156R10

Model of modules	SPDG630-N156R10		SPDG635-N156R10		SPDG640-N156R10		SPDG645-N156R10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Power ( Pmax/W )	630	475.60	635	479.50	640	483.30	645	487.30
Maximum power voltage ( Vmp )	46.64	44.30	46.73	44.40	46.82	44.50	46.91	44.60
Maximum power current ( Imp )	13.51	10.74	13.59	10.79	13.67	10.86	13.75	10.92
Open circuit voltage ( Voc )	56.29	53.20	56.4	53.30	56.51	53.40	56.62	53.50
Short circuit current ( Isc )	14.07	11.34	14.14	11.40	14.21	11.45	14.28	11.51
Module efficiency	22.00%		22.18%		22.35%		22.53%	

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	724.50	730.25	736.00	741.75
Maximum power voltage ( Vmp )	46.64	46.73	46.82	46.91
Maximum power current ( Imp )	15.53	15.63	15.72	15.81
Open circuit voltage ( Voc )	56.29	56.40	56.51	56.62
Short circuit current ( Isc )	16.18	16.26	16.34	16.42

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2525x1134x35mm
Weight	34.3kg
Cell	156 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 1400mm/customized
Connector	MC4 Compatible
Packing Specification	31 pcs/Pallet ; 496 pcs/40' HQ

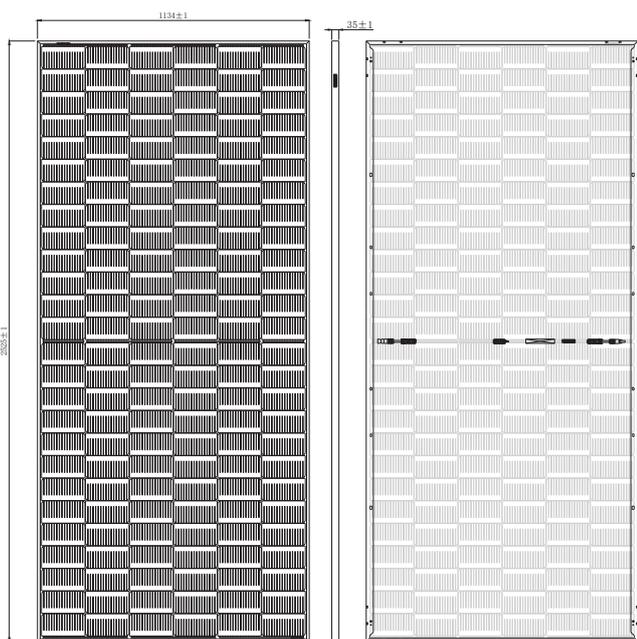
## OPERATING PARAMETERS

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

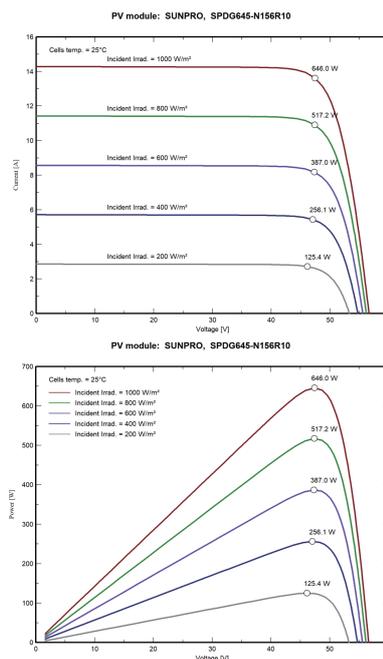
## TEMPERATURE CHARACTERISTICS

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