

Tier1

BloombergNEF

Power the future

TOPCon 182 MONO-FACIAL 475-490W

High efficiency mono-facial modules

· Black frame, White backsheet



UTILITY



C&I

Module efficiency

22.62%



Better leveled
cost of energy



Better high
temperature stability

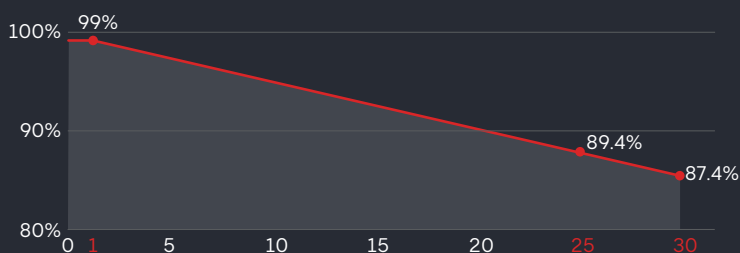


Improved low-light
performance



Excellent
bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality
Guarantee **25**
years

Power
Warranty **30**
years

CERTIFICATE



Ariel Green



Model of modules	SP475-N120M10	SP480-N120M10	SP485-N120M10	SP490-N120M10
	STC	STC	STC	STC
Power (Pmax/W)	475	480	485	490
Maximum power current (Vmp)	36.29	35.44	36.58	36.73
Maximum power current (Imp)	13.48	13.57	13.66	13.75
Open circuit voltage (Voc)	42.66	42.8	42.94	43.06
Short circuit current (Isc)	13.77	13.86	13.95	14.03
Module efficiency	21.93%	22.16%	22.39%	22.62%

STC (Electrical parameters at standard test conditions (STC:AM=1.5, 1000W/m² ,Cells Temperature25℃)

NMOT (Irradiance 800W/m², Ambient Temperature 20℃,AM1.5,Wind Speed 1m/s)

IRRADIANCE 800W/M² , AMBIENT TEMPERATURE 20℃ , AM1.5,WIND SPEED 1M/S

Front power Pmax/W	358.00	362.00	363.00	366.00
Maximum power voltage (Vmp)	33.20	33.30	33.20	33.30
Maximum power current (Imp)	10.77	10.86	10.92	11.00
Open circuit voltage (Voc)	40.20	40.40	40.20	40.30
Short circuit current (Isc)	11.44	11.52	11.59	11.66

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1910×1134x30mm
Weight	22.5kg
Cell	120 cells,N-Type Crystalline Silicon 182x91mm
Glass	3.2mm ultra clear embossed tempered coated glass
Frame	Anodized aluminum alloy
Junction box	IP68 , 3 bypass diodes
Output wire	4mm²
Wire length	Line length 1100mm/customized
Connector	Stabuli MC4 Compatible
Packing Specification	36 pcs/Pallet ; 864 pcs/40'HQ

OPERATING PARAMETERS

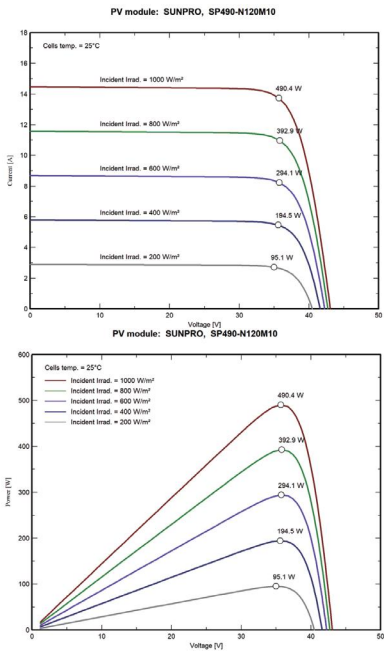
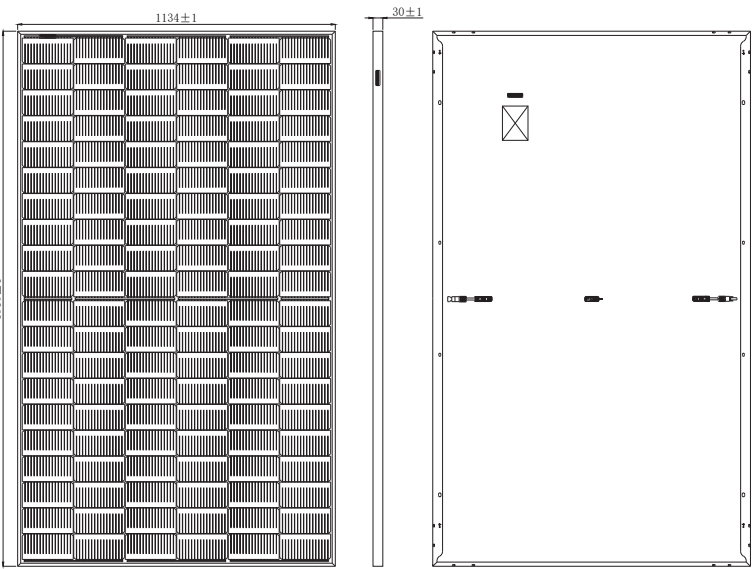
Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	1500V
Maximum rated fuse current (A)	25A
Current operating temperature (C)	-40~+85℃
Mechanical load	+5400Pa/-2400Pa

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℃

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