Tier1

BloombergNEF

YHSUNPRO POWER

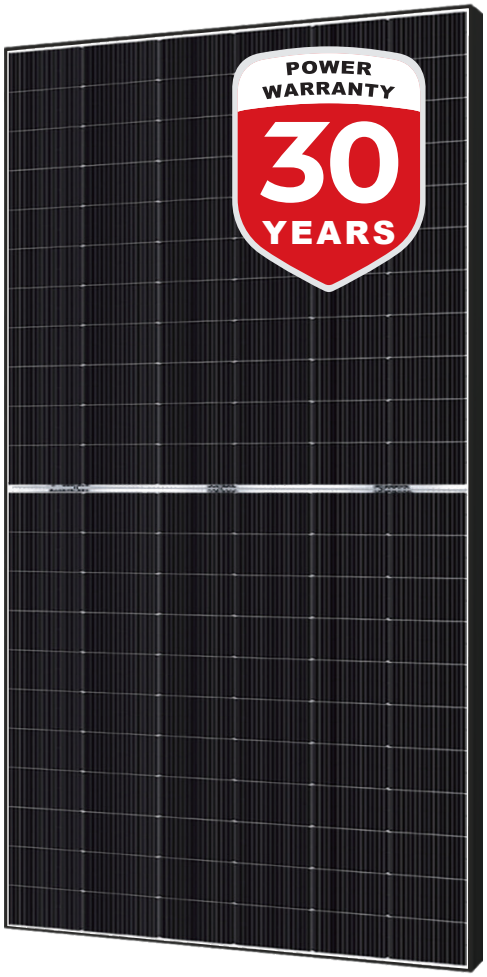
ISO 9001 ISO 14001 SA 8000
ISO 45001 OHSAS 18001

186.8R TOPCON BIFACIAL

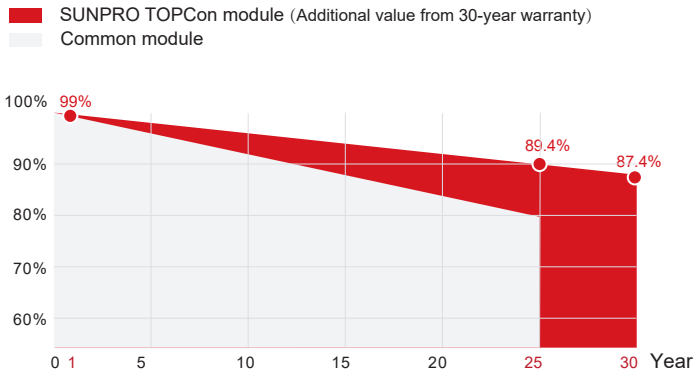
SPDGxxx-N132R10

520~545W

· Double glass
· Black frame
· Bifacial Transparent



25 Yr quality guarantee | 30 Yr power warranty



*SUNPRO Standard tiered warranty

WARRANTY & GUARANTEE

Linear output power guarantee
25 years: 89.4% power output
30 years: 87.4% power output

WITHSTAND STRONG

Snow load 5400Pa
Wind load 2400Pa

PID RESISTANCE

Power positive tolerance 0~+5W.
The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control

R&D AND PRODUCTION

Advanced production line. Bifaciality>80%,effectively improves backside power generation.The leading solar cell cutting process and multi busbar design with SUNPRO Technology.

HIGH EFFICIENCY

N-type , Components have better reliability and lower LID/LETID attenuation. Efficiency can reach 22.41%. Excellent low light performance. Higher power output under the conditions of haze, overcast, etc.

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

Typical type	520W	525W	530W	535W	540W	545W
Max power(Pmax)	520	525	530	535	540	545
Max power voltage(Vmp)	39.25	39.39	39.53	39.66	39.80	39.96
Max power current(Imp)	13.25	13.33	13.41	13.49	13.57	13.64
Open circuit voltage(Voc)	47.46	47.59	47.72	47.87	48.01	48.14
Short circuit current(Isc)	13.80	13.88	13.96	14.03	14.11	14.19
Module Efficiency(%)	21.38	21.58	21.79	21.99	22.20	22.41
Max system voltage						
Maximum Series Fuse Rating						

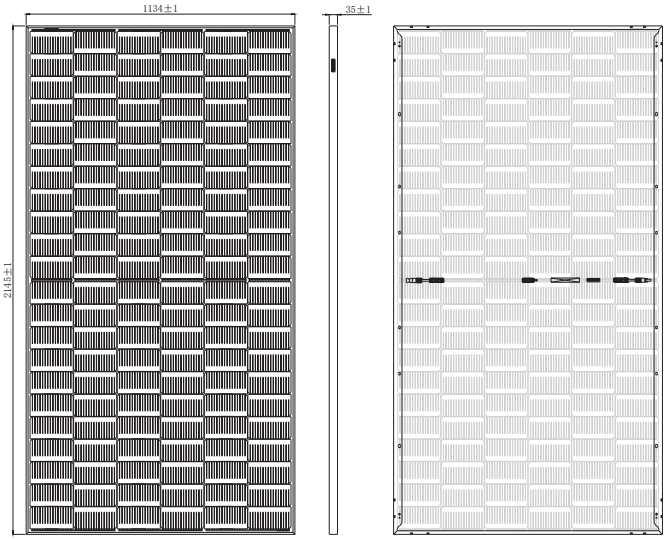
Electrical Characteristics with 15% Rear Side Power Gain

Front power Pmax/W	520W	525W	530W	535W	540W	545W
Total power Pmax/W	598	603.75	609.5	615.25	621	626.75
Vmp/V(Total)	39.25	39.39	39.53	39.66	39.80	39.96
Imp/A(Total)	15.24	15.33	15.42	15.51	15.60	15.68
Voc/V(Total)	47.46	47.59	47.72	47.87	48.01	48.14
Isc/A(Total)	15.87	15.96	16.05	16.13	16.23	16.32

Electrical parameters at NMOT test conditions
(Irradiance 800W/m²,Ambient Temperature 20℃,AM 1.5,Wind Speed 1m/s)

Typical type	520W	525W	530W	535W	540W	545W
Max power(Pmax)	392.4	396.3	400.2	404.1	408.1	411.9
Max power voltage(Vmp)	37.3	37.4	37.6	37.7	37.9	38
Max power current(Imp)	10.53	10.6	10.66	10.72	10.78	10.84
Open circuit voltage(Voc)	44.8	45	45.1	45.2	45.4	45.5
Short circuit current(Isc)	11.12	11.19	11.25	11.31	11.37	11.44

DIMENSIONS AND STRUCTURE



Mechanical Data

Dimensions	2145x1134x35mm
Weight	29.8kg
Glass	(F)2.0mm ultra clear embossed double layer colorless glass (B)2.0mm glazed tempered glass
Output cables	4mm², symmetrical lengths 1300mm
Connectors	MC4 compatible IP68
Cell type	N type Mono-Crystalline, 182mm×93.4mm
Number of cells	132 cells (Half-Cell)

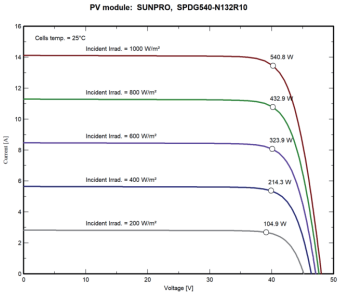
Temperature Characteristics

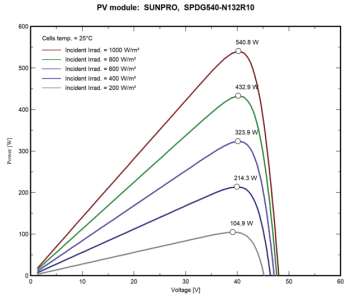
Temp.Coeff.of Isc(TK Isc)	0.046%/ ℃
Temp.Coeff.of Voc(TK Voc)	-0.25%/℃
Temp.Coeff.of Pmax(TK Pmax)	-0.30%/℃
Operating temperature	-40~+85℃
Normal operating cell temperature	45±2℃

Packing Configuration

Container	40'HQ
Pieces per pallet	31
Pallets per container	22
Pieces per container	682

I-V CHARACTERISTICS AT DIFFERENT IRRADIATION





Tests, Certifications and Warranties

Standard tests	IEC 61215, IEC 61730, IEC 61701, IEC 62716, PPP 58042
System certs	ISO 9001, ISO14001, ISO45001
Certifications	TÜV, CE, WEEE
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~+5W
Junction box	IP 68
Warranties	25 years product warranty and 30 years 87.4% of power

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