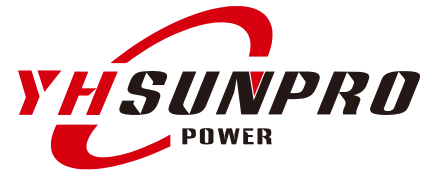


Tier1

BloombergNEF



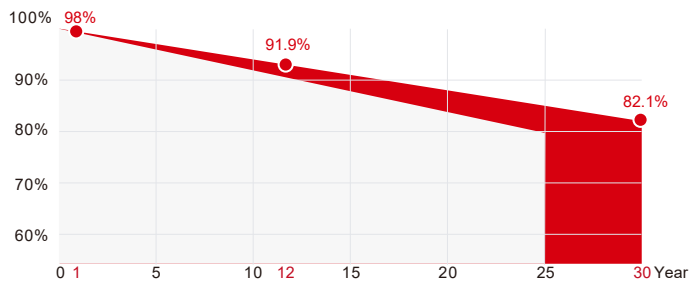
M10 HI-EFF TWIN MONO

SPDG xxx-144M10
540~565W

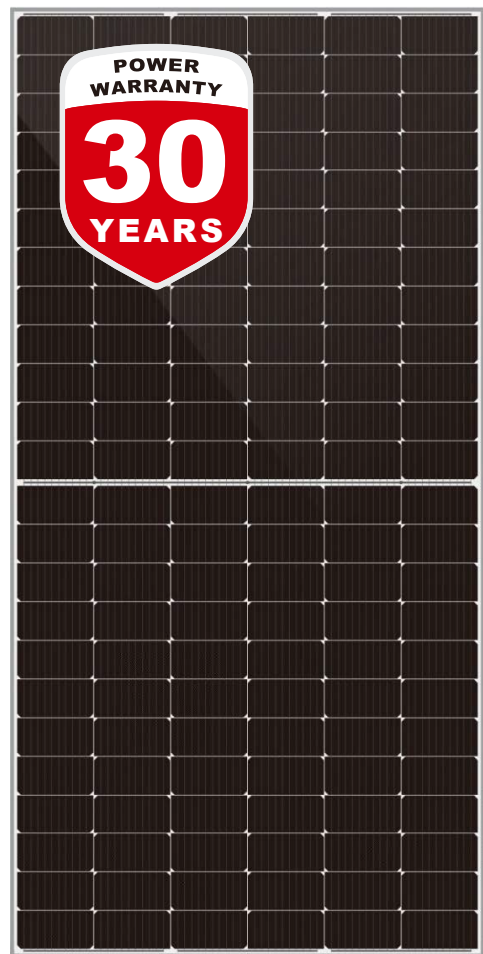
- Double glass
- Silver frame
- White mesh
- Full black

15 Yr quality guarantee | 30 Yr power warranty

SUNPRO Standard (Additional value from 30-year warranty)
 Industry Standard



*SUNPRO Standard tiered warranty



WARRANTY & GUARANTEE

Linear output power guarantee
12 years: 91.9% power output
30 years: 82.1% power output

WITHSTAND STRONG

Snow load 5400Pa
Wind load 2400Pa

TWO-SIDED BENEFITS

High efficiency solar cells.
Effective working area of both sides >75%, with significant power increase. Capture more sunlight and turn it into electricity

R&D AND PRODUCTION

Advanced production line. The leading solar cell cutting process and multi busbar design with SUNPRO Technology.

HIGH EFFICIENCY

Efficiency can reach 21.86%. 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 Temperature 25°C)

Typical type

	540W	545W	550W	555W	560W	565W
Max power(Pmax)	540	545	550	555	560	565
Max power voltage(Vmp)	41.69	41.83	41.96	42.09	42.23	42.36
Max power current(Imp)	12.96	13.03	13.11	13.19	13.27	13.34
Open circuit voltage(Voc)	49.58	49.74	49.90	50.06	50.22	50.38
Short circuit current(Isc)	13.84	13.92	14.00	14.08	14.16	14.24
Module Efficiency(%)	20.89	21.09	21.28	21.48	21.67	21.86
Max system voltage	DC 1500V(TÜV,UL)					
Maximum Series Fuse Rating	30A					

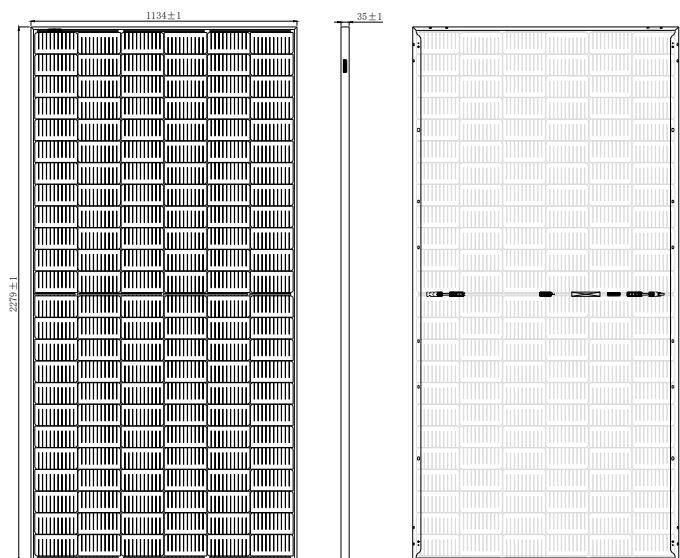
Electrical parameters at NMOT test conditions (Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s)

Typical type	540W	545W	550W	555W	560W	565W
Max power(Pmax)	405	406	410	413	417	423
Max power voltage(Vmp)	38.50	38.30	38.50	38.60	38.70	39.00
Max power current(Imp)	10.53	10.59	10.65	10.71	10.77	10.83
Open circuit voltage(Voc)	46.6	46.40	46.50	46.70	46.80	47.20
Short circuit current(Isc)	11.16	11.22	11.28	11.35	11.41	11.48

Electrical Characteristics with 15% Rear Side Power Gain

Front power Pmax/W	540W	545W	550W	555W	560W	565W
Total power Pmax/W	621	626.75	632.5	638.25	644	649.75
Vmp/V(Total)	41.69	41.83	41.96	42.08	42.23	42.36
Imp/A(Total)	14.90	14.98	15.07	15.17	15.25	15.34
Voc/V(Total)	49.58	49.74	49.90	50.06	50.22	50.38
Isc/A(Total)	15.92	16.01	16.10	16.19	16.29	16.38

DIMENSIONS AND STRUCTURE



Mechanical Data

Dimensions	2279×1134×35mm
Weight	32kg
Glass	(F) 2.0mm ultra clear embossed semi-tempered coated glass (B) 2.0mm white mesh semi-tempered glass
Output cables	4mm ² , symmetrical lengths 1300mm
Connectors	MC4 compatible IP68
Cell type	Mono-Crystalline PERC, 182mm x 91mm
Number of cells	144cells (Half-Cell)

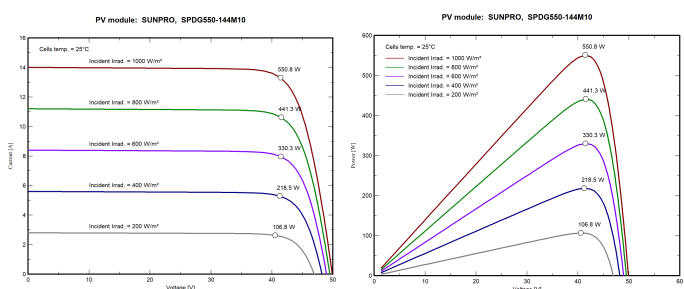
Temperature Characteristics

Temp.Coeff.of Isc(TK Isc)	0.048%/°C
Temp.Coeff.of Voc(TK Voc)	-0.27%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.34%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	44±2°C

Packing Configuration

Container	40'HQ
Pieces per pallet	62
Pallets per container	10
Pieces per container	620

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, UL, INMETRO, CEC, 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	15 years product warranty and 30 years 84.95% of power