

EVO 5N

520-540W

SE5-66H

N-type TOPCon Black Frame Solar Module

22.74%

Max. Module Efficiency

10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

Higher Reliability

Adpoted SunEvo latest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology.

Quality Management System and Product Certification

- IEC61215/61730, IEC62804(PID), IEC61701(Salt).
- IEC62716 (Ammonia), IEC60068-2-68(Sand).
- ISO 9001:2015/quality management system.
- ISO 14001:2015/environmental management system.
- ISO 45001:2018/occupation health safety management system.
- ISO 50001:2011/energy management system.
- IEC TS 62941-2016/PV industry quality management system.

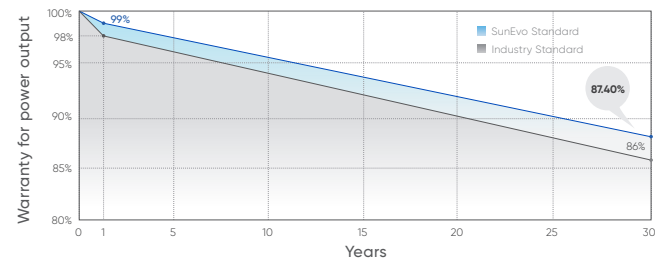
Quality Guarantee

25 year

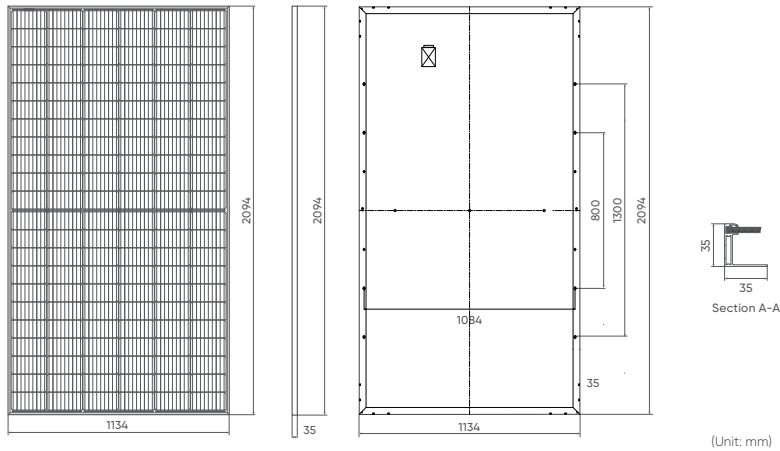
Materials Warranty

30 year

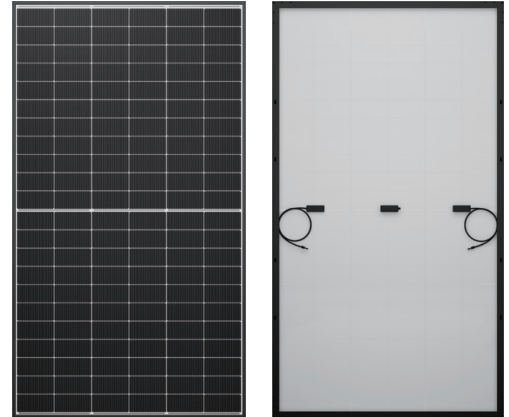
Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	132 (6×22)
Dimensions	2094 × 1134 × 35mm
Weight	25.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Mechanical Load Test	5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 682pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+5W

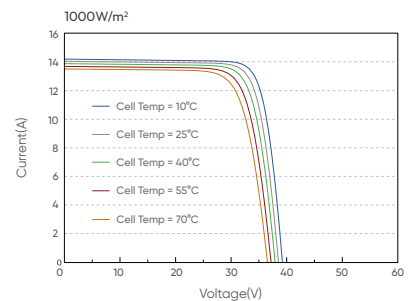
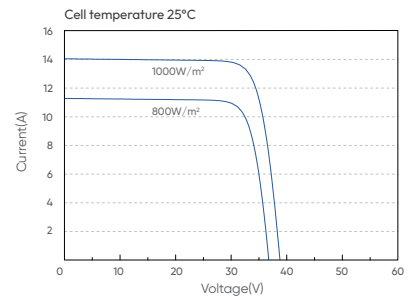
Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C

Electrical Parameters (STC*)

Module Type: SE5-66H	520	525	530	535	540
Maximum Power (Pmax/W)	520	525	530	535	540
Voltage at Maximum Power (Vmpp/V)	39.36	39.53	39.70	39.87	40.04
Current at Maximum Power (Impp/A)	13.21	13.28	13.35	13.42	13.49
Open Circuit Voltage (Voc/V)	47.03	47.22	47.41	47.60	47.79
Short Circuit Current (Isc/A)	14.14	14.21	14.28	14.35	14.52
Module Efficiency (%)	21.90	22.11	22.32	22.53	22.74

I-V Curve



Electrical Parameters (NMOT*)

Maximum Power (Pmax)	391	395	399	404	409
Voltage at Maximum Power (Vmpp/V)	36.27	36.44	36.61	36.78	36.95
Current at Maximum Power (Impp/A)	10.78	10.84	10.90	10.98	11.07
Open Circuit Voltage (Voc/V)	44.74	44.90	45.05	45.21	45.37
Short Circuit Current (Isc/A)	11.40	11.46	11.52	11.68	11.84

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
 2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C.
 3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.