

EVO 5N

515-535W

SE5-66H

N-type TOPCon
Ultra Black Solar Module



22.53%

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

Adopted 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.

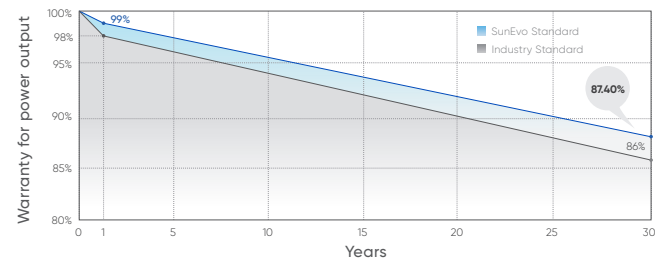
Quality Guarantee

25 year

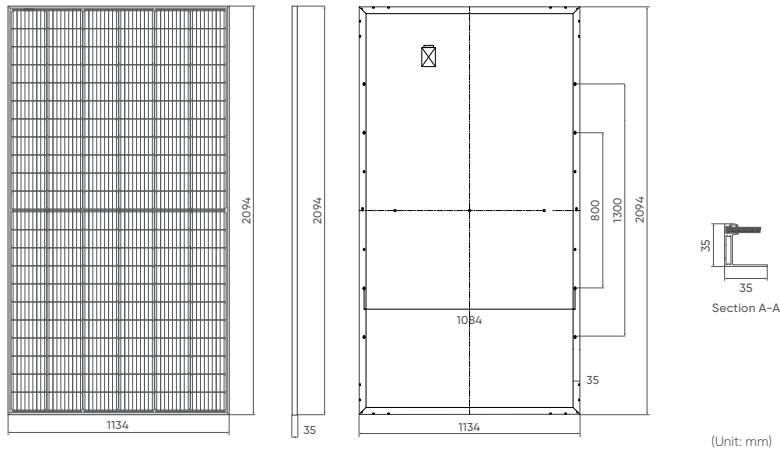
Materials Warranty

30 year

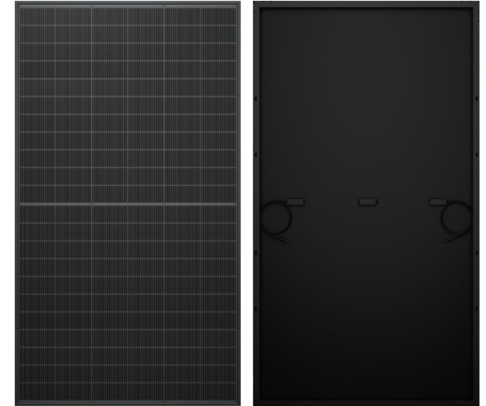
Power Warranty



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 |

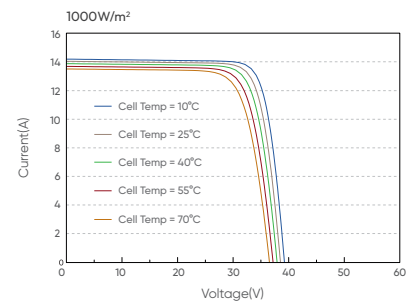
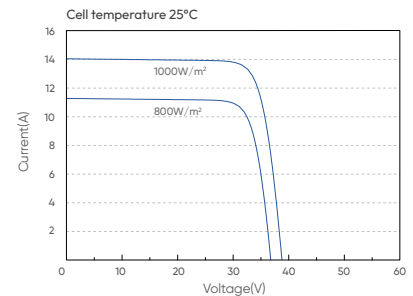
Temperature Characteristics

| | |
|--------------------------------------|------------|
| 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 | 515 | 520 | 525 | 530 | 535 |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 515 | 520 | 525 | 530 | 535 |
| Voltage at Maximum Power (Vmpp/V) | 39.19 | 39.36 | 39.53 | 39.70 | 39.87 |
| Current at Maximum Power (Impp/A) | 13.14 | 13.21 | 13.28 | 13.35 | 13.42 |
| Open Circuit Voltage (Voc/V) | 46.92 | 47.03 | 47.22 | 47.41 | 47.60 |
| Short Circuit Current (Isc/A) | 14.07 | 14.14 | 14.21 | 14.28 | 14.35 |
| Module Efficiency (%) | 21.69 | 21.90 | 22.11 | 22.32 | 22.53 |

I-V Curve



Electrical Parameters (NMOT*)

| | | | | | |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) | 387 | 391 | 395 | 399 | 404 |
| Voltage at Maximum Power (Vmpp/V) | 36.10 | 36.27 | 36.44 | 36.61 | 36.78 |
| Current at Maximum Power (Impp/A) | 10.72 | 10.78 | 10.84 | 10.90 | 10.98 |
| Open Circuit Voltage (Voc/V) | 44.58 | 44.74 | 44.90 | 45.05 | 45.21 |
| Short Circuit Current (Isc/A) | 11.34 | 11.40 | 11.46 | 11.52 | 11.68 |

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%.