

EVO 5N

# 570-590W

SE5-72H

N-type TOPCon Black Frame Solar Module

22.83%

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.

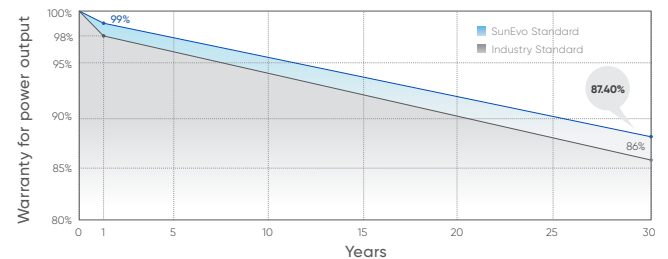
### Quality Management System and Product Certification

- 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.

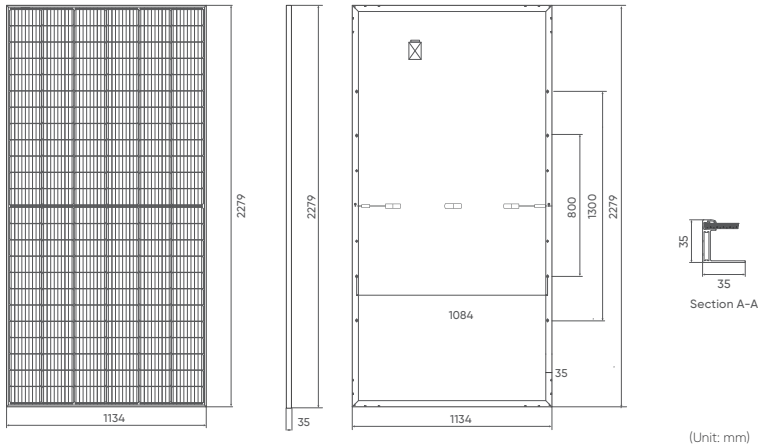
### Quality Guarantee

25 year Materials Warranty

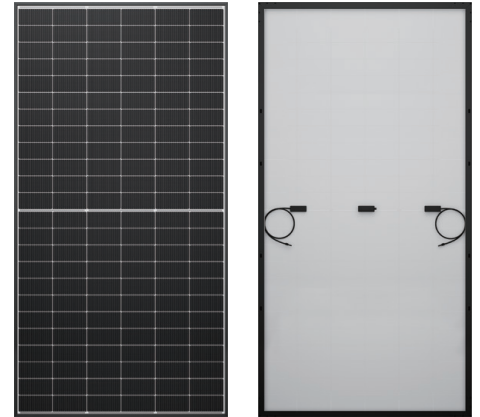
30 year Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 35mm
Weight	27.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm <sup>2</sup> , 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Mechanical Load Test	5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 620pcs/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

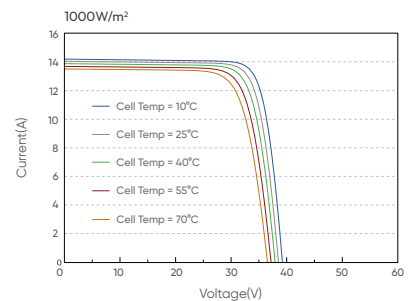
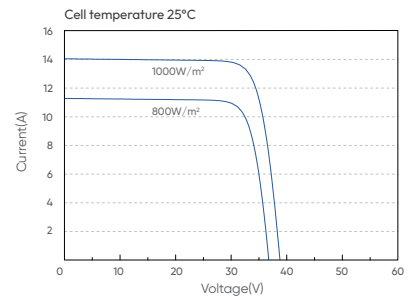
Temperature Characteristics

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: SE5-72H	570	575	580	585	590
Maximum Power (Pmax/W)	570	575	580	585	590
Voltage at Maximum Power (Vmpp/V)	44.63	44.83	45.03	45.23	45.46
Current at Maximum Power (Impp/A)	12.78	12.83	12.90	12.94	13.00
Open Circuit Voltage (Voc/V)	52.40	52.60	52.80	53.00	53.20
Short Circuit Current (Isc/A)	13.42	13.46	13.50	13.54	13.58
Module Efficiency (%)	22.06	22.25	22.44	22.64	22.83

I-V Curve



Electrical Parameters (NMOT\*)

Maximum Power (Pmax)	431	435	439	443	447
Voltage at Maximum Power (Vmpp/V)	42.87	43.15	43.34	43.54	43.72
Current at Maximum Power (Impp/A)	10.06	10.08	10.12	10.16	10.21
Open Circuit Voltage (Voc/V)	49.80	50.03	50.22	50.41	50.60
Short Circuit Current (Isc/A)	10.56	10.59	10.63	10.66	10.69

1. Standard Test Conditions [STC]: irradiance 1000W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m<sup>2</sup>; 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%.