

EVO 5N

620-640W

SE5-78H

N-type TOPCon
Solar Module**22.90%**

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.

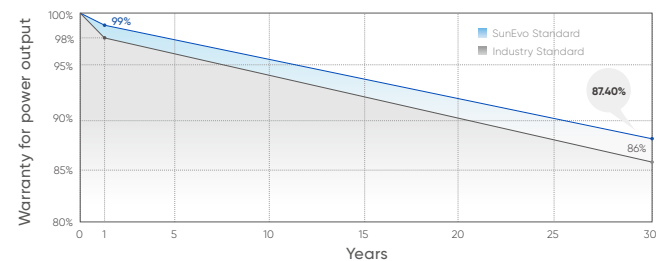
Quality Guarantee

25 year

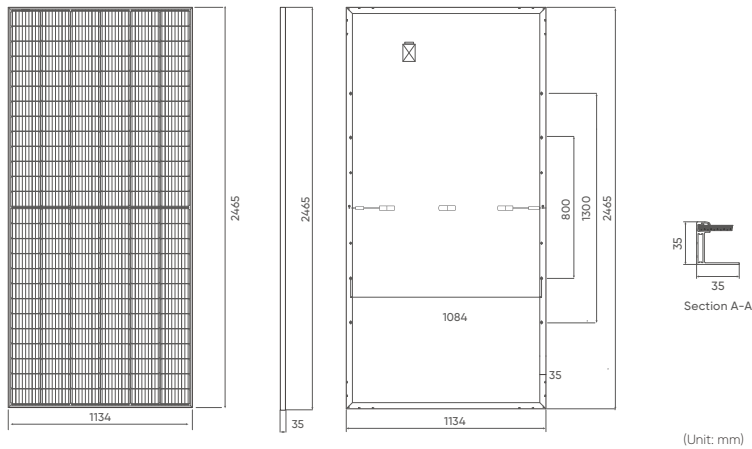
Materials Warranty

30 year

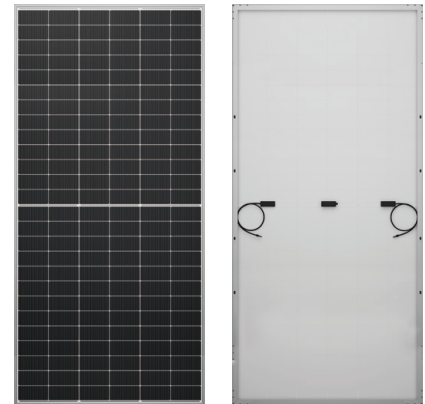
Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	156 (6×26)
Dimensions	2465 × 1134 × 35mm
Weight	30.0kg
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, 124pcs/20'GP, 496pcs/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

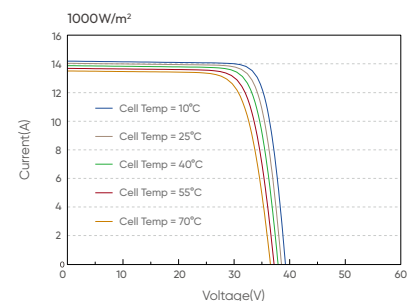
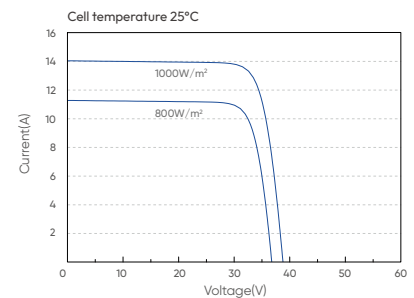
Temperature Characteristics

	45±2°C
	-0.30%/°C
	-0.25%/°C
	+0.046%/°C

Electrical Parameters (STC*)

Module Type: SE5-78H	620	625	630	635	640
Maximum Power (Pmax/W)	620	625	630	635	640
Voltage at Maximum Power (Vmpp/V)	48.42	48.62	48.82	49.02	47.38
Current at Maximum Power (Impp/A)	12.81	12.86	12.91	12.96	10.22
Open Circuit Voltage (Voc/V)	56.85	57.05	57.25	57.45	54.83
Short Circuit Current (Isc/A)	13.50	13.55	13.60	13.65	10.78
Module Efficiency (%)	22.18	22.36	22.54	22.72	22.90

I-V Curve



Electrical Parameters (NMOT*)

Maximum Power (Pmax)	469	473	477	481	484
Voltage at Maximum Power (Vmpp/V)	46.61	46.80	46.99	47.18	47.38
Current at Maximum Power (Impp/A)	10.07	10.11	10.15	10.18	10.22
Open Circuit Voltage (Voc/V)	54.07	54.26	54.45	54.64	54.83
Short Circuit Current (Isc/A)	10.63	10.67	10.71	10.74	10.78

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%.