

EVO 5N

# 625-645W

SE5-78H

N-type TOPCon Solar Module



23.07%  
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.

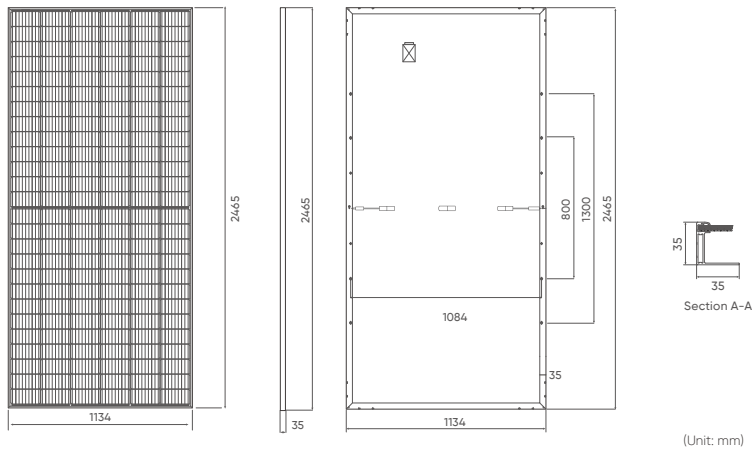
### Quality Management System and Product Certification

- 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.

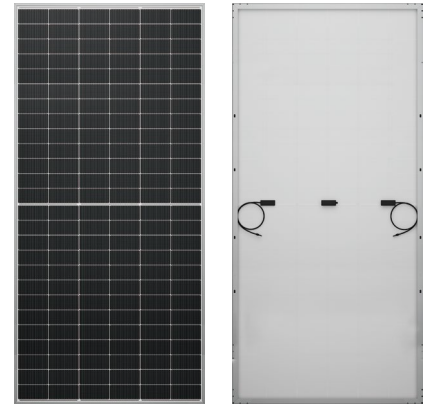
### Quality Guarantee



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 aluminum alloy frame
Junction Box	IP68 rated (3 by pass diodes)
Output Cables	4mm <sup>2</sup> , 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Wind/Snow load	2400Pa/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

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: SE5-78H	625	630	635	640	645
Voltage at Maximum Power (Vmpp/V)	48.62	48.82	49.02	49.22	49.42
Current at Maximum Power (Impp/A)	12.86	12.91	12.96	13.01	13.06
Open Circuit Voltage (Voc/V)	57.05	57.25	57.45	57.65	57.85
Short Circuit Current (Isc/A)	13.55	13.60	13.65	13.70	13.75
Module Efficiency (%)	22.36	22.54	22.72	22.90	23.07

Electrical Parameters (NMOT\*)

Maximum Power (Pmax)	473	477	481	484	487
Voltage at Maximum Power (Vmpp/V)	46.80	46.99	47.18	47.38	47.58
Current at Maximum Power (Impp/A)	10.11	10.15	10.18	10.22	10.24
Open Circuit Voltage (Voc/V)	54.26	54.45	54.64	54.83	55.02
Short Circuit Current (Isc/A)	10.67	10.71	10.74	10.78	10.82

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%.

I-V Curve

