

EVO 5N

# 585-605W

SE5-72HBD

N-type TOPCon  
Bifacial Dual Glass Solar Module

**23.42%**  
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

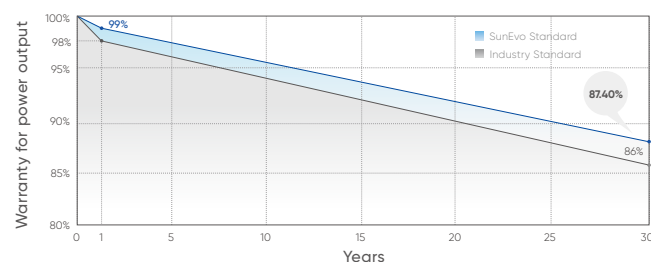
Higher power generation under working conditions, thanks to passivating contact cell technology.

## Quality Management System and Product Certification

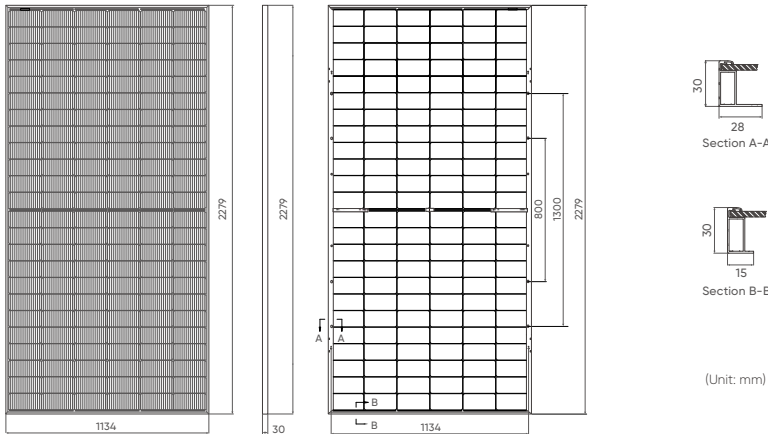
IEC61215/61730, IEC62804(PID), IEC61701(Salt),  
IEC62716 (Ammonia), IEC60068-2-68(Sand),  
ISO 9001:2015/quality management system,  
ISO 14001:2015/environmental management system,  
ISO 45001:2018/occupation health safety management system,  
ISO 50001:2011/energy management system,  
IEC TS 62941-2016/PV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

## Quality Guarantee

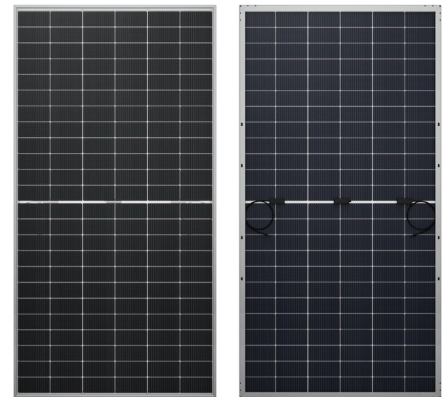
**15 year** Materials Warranty      **30 year** Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	TNC (N Type Monocrystalline Cell)
No. of Cells	144 (6 × 24)
Dimensions	2278±2 × 1134±2 × 30mm
Weight	31.5kg
Front/Rear Glass	2.0mm high transmittance, AR semi-tempered glass/2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68,3 diodes
Output Cables	4mm <sup>2</sup>
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs per 40'HC

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

Electrical Parameters (STC\*)

Module Type: SE5-72HBD	585	590	595	600	605
Voltage at Maximum Power (V <sub>mpp</sub> /V)	44.10	44.27	44.41	44.56	44.72
Current at Maximum Power (I <sub>mpp</sub> /A)	13.27	13.33	13.40	13.45	13.53
Open Circuit Voltage (V <sub>oc</sub> /V)	52.50	52.70	53.20	53.60	53.90
Short Circuit Current (I <sub>sc</sub> /A)	13.90	13.95	14.15	14.26	14.39
Module Efficiency (%)	22.60	22.80	23.00	23.22	23.42

Bifacial Output (Rearside Power Gain)

		585	590	595	600	605
5%	Maximum Power (P <sub>max</sub> /W)	614.3	619.5	624.8	630.1	635.3
	Module Efficiency STC (%)	23.80	24.00	24.20	24.40	24.60
15%	Maximum Power (P <sub>max</sub> /W)	672.8	678.5	684.3	691.0	697.7
	Module Efficiency STC (%)	26.00	26.30	26.50	26.80	27.10
25%	Maximum Power (P <sub>max</sub> /W)	731.3	737.5	743.8	750.4	757.1
	Module Efficiency STC (%)	28.30	28.50	28.80	29.10	29.40

1. Standard Test Conditions [STC]: Irradiance 1000W/m<sup>2</sup>; AM 1.5; ambient temperature 25°C according to EN 60904-3;  
 2. Tolerance of P<sub>m</sub>: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

I-V Curve

