

# EVO 5N

# 580-600W

SE5-72HBD

## N-type HJT Bifacial Dual Glass Solar Module



23.23%

Max. Module Efficiency

### HJT 2.0 Technology

Combining gettering process and single-side  $\mu\text{-Si}$  technology to ensure higher cell efficiency and higher module power.

### -0.26%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.

### SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.

### Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

### Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extent module lifespan.

### 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.

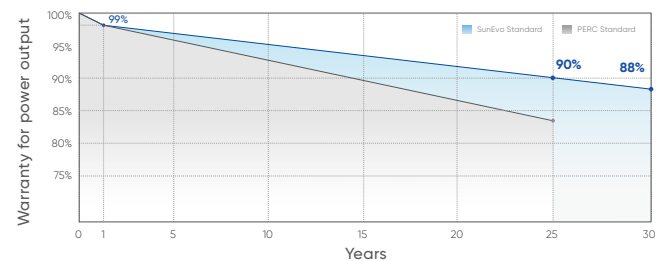
### Quality Guarantee

25 year

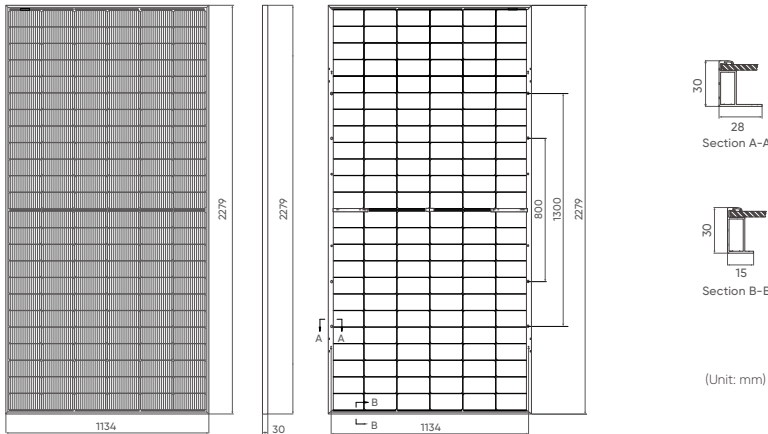
Materials Warranty

30 year

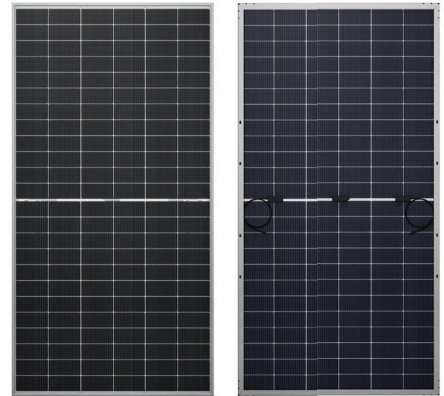
Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type HJT
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 30mm
Weight	31.5kg
Glass	Front: 2.0mm coated semi-tempered glass; Back: 2.0mm semi-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	36pcs/box, 180pcs/20'GP, 720pcs/40'HQ

Operating Characteristics

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

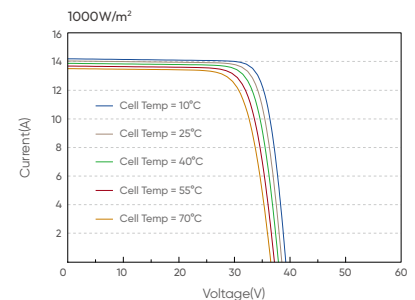
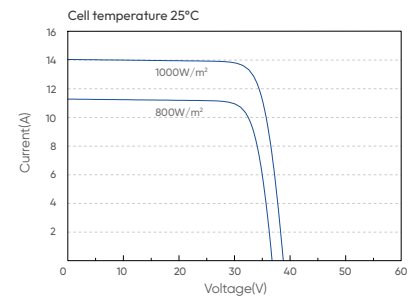
Temperature Characteristics

Nominal Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C

Electrical Parameters (STC\*)

Module Type: SE5-72HBD	580	585	590	595	600
Maximum power (Pmax/W)	580	585	590	595	600
Open Circuit Voltage (Voc/V)	53.92	54.12	54.31	54.50	54.70
Short Circuit Current (Isc/A)	13.35	13.40	13.45	13.50	13.55
Voltage at Maximum power (Vmpp/V)	45.00	45.21	45.42	45.63	45.84
Current Maximum Power (Impp/A)	12.89	12.94	12.99	13.04	13.09
MODULE EFFICIENCY (%)	22.45	22.65	22.84	23.03	23.23

I-V Curve



Bifacial Output-Rearside Power Gain

		641	646	652	657	663
5%	Maximum power (Pmax/W)	641	646	652	657	663
	Module Efficiency STC (%)	23.57	23.78	23.98	24.18	24.39
15%	Maximum power (Pmax/W)	667	673	679	684	690
	Module Efficiency STC (%)	25.82	26.05	26.27	26.48	26.71
25%	Maximum Power (Pmax/W)	725	731	738	744	750
	Module Efficiency STC (%)	28.06	28.31	28.55	28.79	29.04

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 Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.