

EVO 5N

480-500W

SE5-60HBD

N-type HJT Bifacial Dual Glass
Solar Module**23.08%**

Max. Module Efficiency

HJT 2.0 Technology

Combining gettering process and single-side $\mu\text{c-Si}$ 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

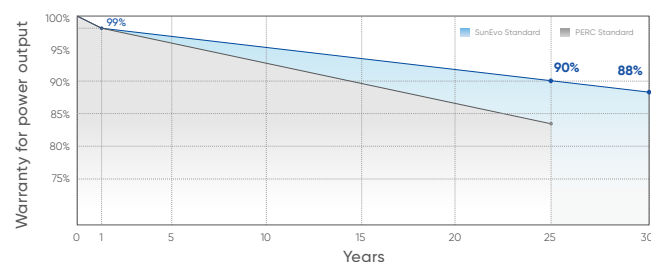
Stronger water resistance, greater air impermeability to extent module lifespan.

Quality Management System and Product Certification

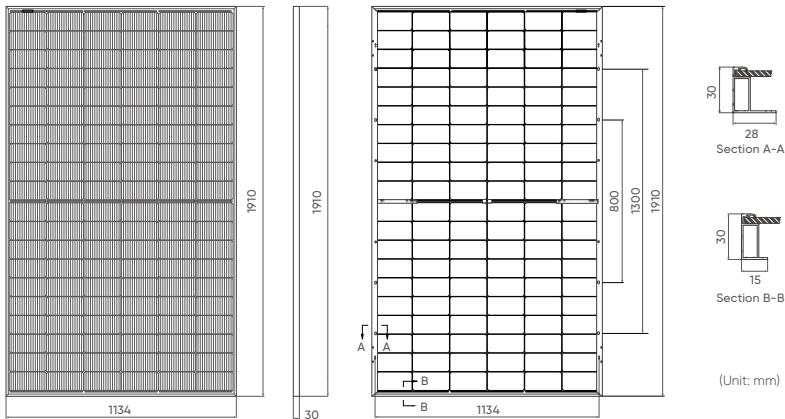
IEC61215/61730, IEC62804(PID), IEC61701(Salt),
IEC62716 (Ammonia), IEC60068-2-68(Sand),
ISO 9001:2015/quality management system,
ISO 14001:2015/environmental management system,
ISO 45001:2018/occupation health safety management system,
ISO 50001:2011/energy management system,
IEC TS 62941-2016/PV industry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

Quality Guarantee

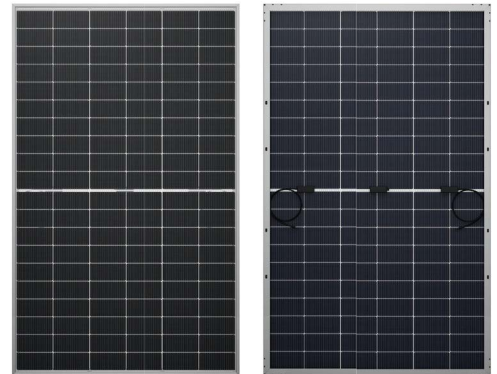
25 year Materials Warranty **30 year** Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type HJT
No. of Cells	120 (6×20)
Dimensions	1910 × 1134 × 30mm
Weight	26.0kgs
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 ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa
Packaging	36pcs/box, 216pcs/20'GP, 864pcs/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

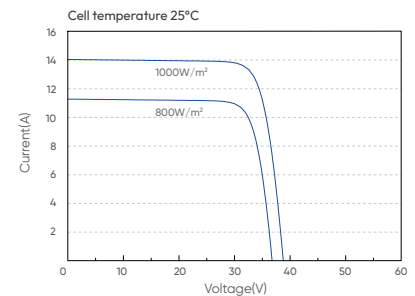
Temperature Characteristics

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*)

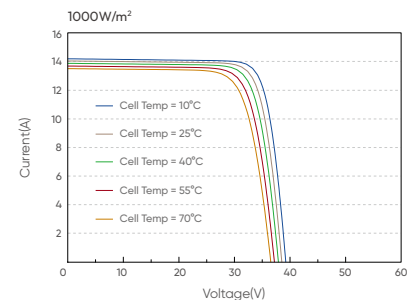
Module Type: SE5-60HBD	480	485	490	495	500
Maximum power (Pmax/W)	480	485	490	495	500
Open Circuit Voltage (Voc/V)	44.93	45.10	45.26	45.42	45.58
Short Circuit Current (Isc/A)	11.13	11.17	11.21	11.25	11.29
Voltage at Maximum power (Vmpp/V)	37.50	37.68	37.85	38.03	38.20
Current Maximum Power (Impp/A)	12.80	12.87	12.95	13.02	13.09
MODULE EFFICIENCY (%)	22.16	22.39	22.62	22.85	23.08

I-V Curve



Bifacial Output-Rearside Power Gain

5%	Maximum power (Pmax/W)	530	536	541	547	553
	Module Efficiency STC (%)	23.27	23.51	23.75	24.00	24.24
15%	Maximum power (Pmax/W)	552	558	564	569	575
	Module Efficiency STC (%)	25.49	25.75	26.02	26.28	26.55
25%	Maximum Power (Pmax/W)	600	606	613	619	625
	Module Efficiency STC (%)	27.70	27.99	28.28	28.57	28.86



1. Standard Test Conditions [STC]: irradiance 1000W/m², 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%.