Making more power

BiMAX 5N

505-535W

SP535M-66H

N-type TOPCon
Bifacial Dual Glass Solar Module

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

Adpoted SunPal lastest S-TOPCon 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.

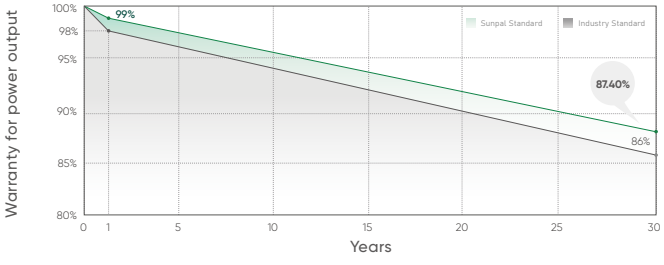
Quality Management System and Product Certification

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



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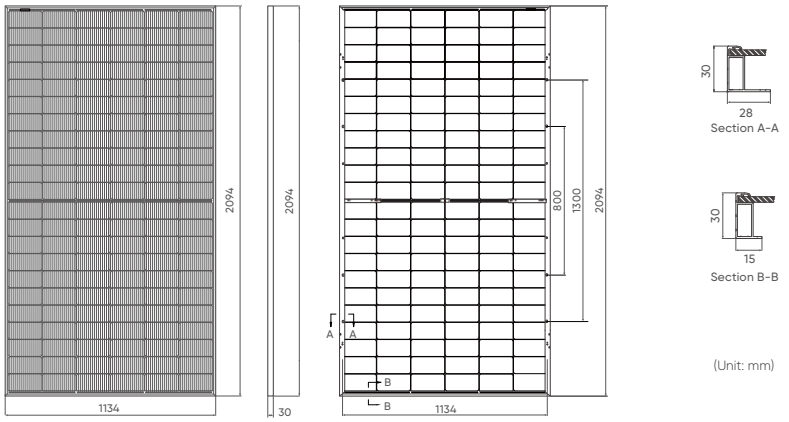
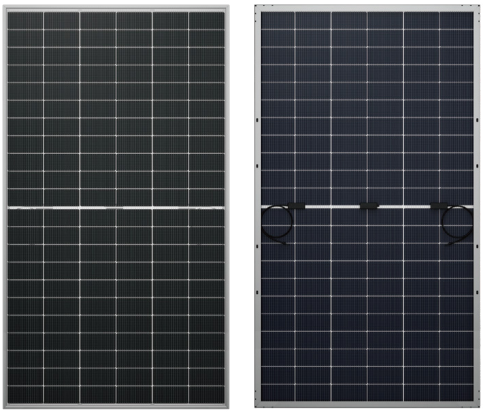
Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	132 (6×22)
Dimensions	2094 x 1134 x 30mm
Weight	28.5kg
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	4mm2, 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
M echanical load test	5400Pa
Packaging	36pcs/box, 180pcs/20'GP, 792pcs/40'HQ

Operating Characteristics

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

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%°C
Temperature Coefficient of Voc	-0.25%°C
Temperature Coefficient of Isc	+0.045%°C

Electrical Parameters (STC*)

Module Type: **SP535M-66H**	505	510	515	520	525	530	535
Maximum power (Pmax/W)	505	510	515	520	525	530	535
Open Circuit Voltage (Voc/V)	46.59	46.75	46.92	47.08	47.24	47.40	47.56
Short Circuit Current (Isc/A)	13.91	13.98	14.05	14.12	14.19	14.26	14.33
Voltage at Maximum power (Vmpp/V)	38.26	38.43	38.61	38.78	38.95	39.12	39.29
Current Maximum Power (Impp/A)	13.20	13.27	13.34	13.41	13.48	13.55	13.62
MODULE EFFICIENCY (%)	21.27	21.48	21.69	21.90	22.11	22.32	22.53

Bifacial Output-Rearsid Power Gain

5%	Maximum power (Pmax/W)	530	536	541	546	551	557	562
	Module Efficiency STC (%)	22.33	22.55	22.77	22.99	23.21	23.44	23.66
15%	Maximum power (Pmax/W)	581	587	592	598	604	610	615
	Module Efficiency STC (%)	24.46	24.70	24.94	25.18	25.43	25.66	25.90
25%	Maximum Power (Pmax/W)	631	638	644	650	656	663	669
	Module Efficiency STC (%)	26.58	26.85	27.11	27.37	27.64	27.91	28.18

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%.

I-V Curve