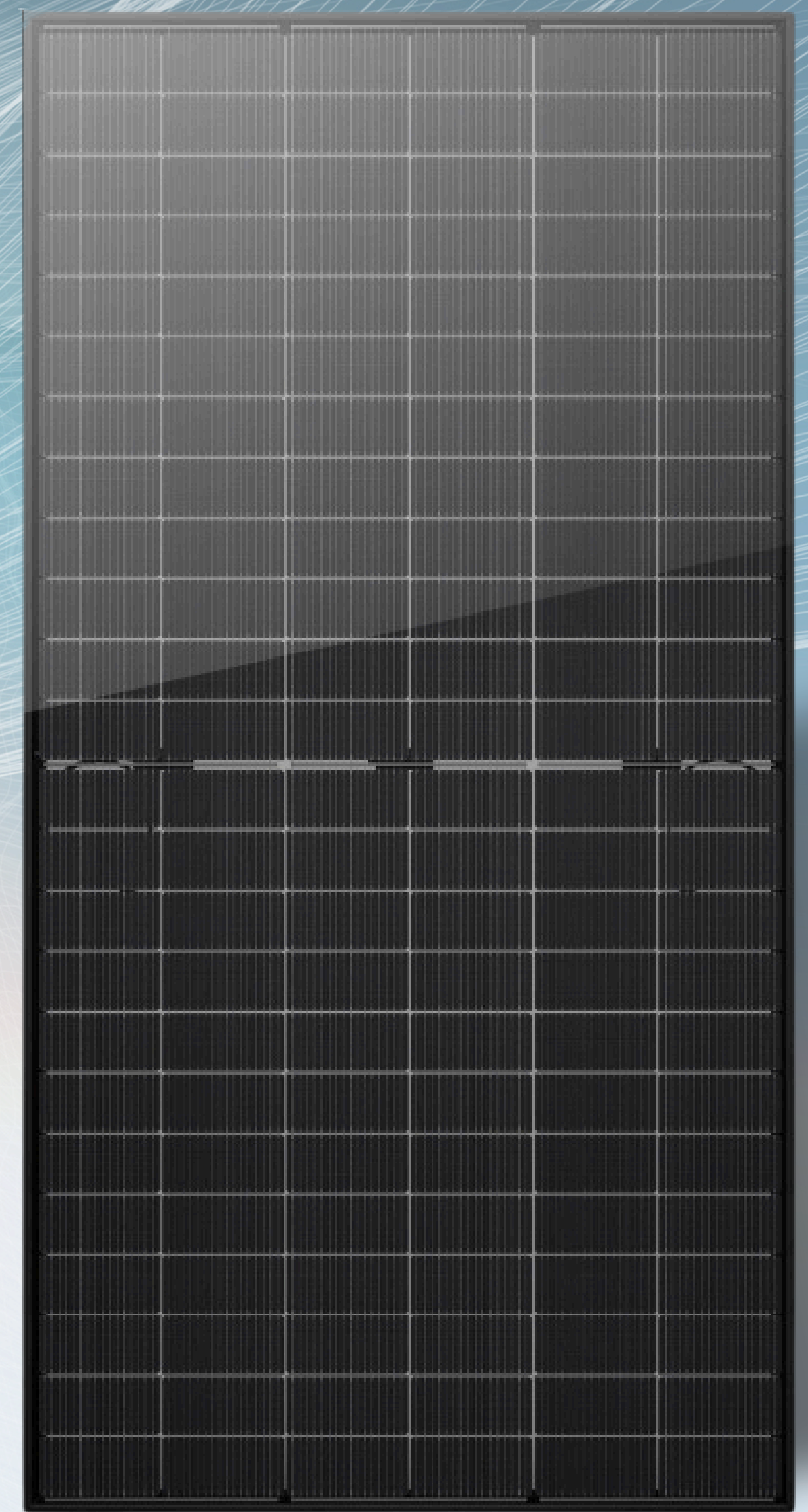


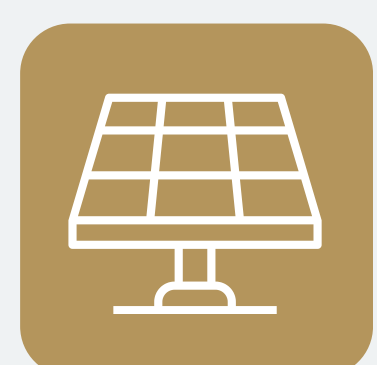


SPMLBI570W

N-type TOPCon Full-Black Bifacial Dual Glass Solar Panel

The Maple Leaf 555-575W N-type TOPCon Full Black Bifacial Dual Glass Solar Module offers 10-30% additional power generation, a 30-year lifespan, and zero LID. It features S-TOPCo 2.0 technology, ensuring high reliability, no leakage, and better performance in low-light and varied temperature conditions.

Key Features



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.



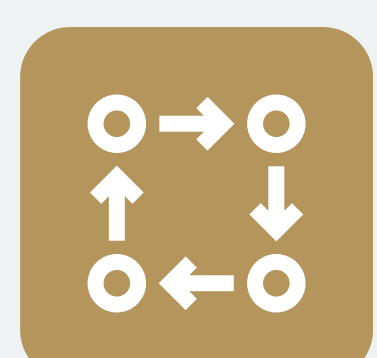
Better Weak Illumination Response

Higher power output even under low-light environment like on cloudy or foggy days.



Better Temperature Coefficient

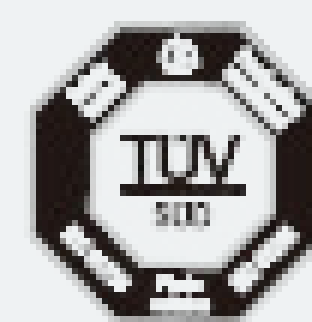
Higher power generation under working conditions, thanks to passivating contact cell technology.



Higher Reliability

Adopted latest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

Product Certification



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.

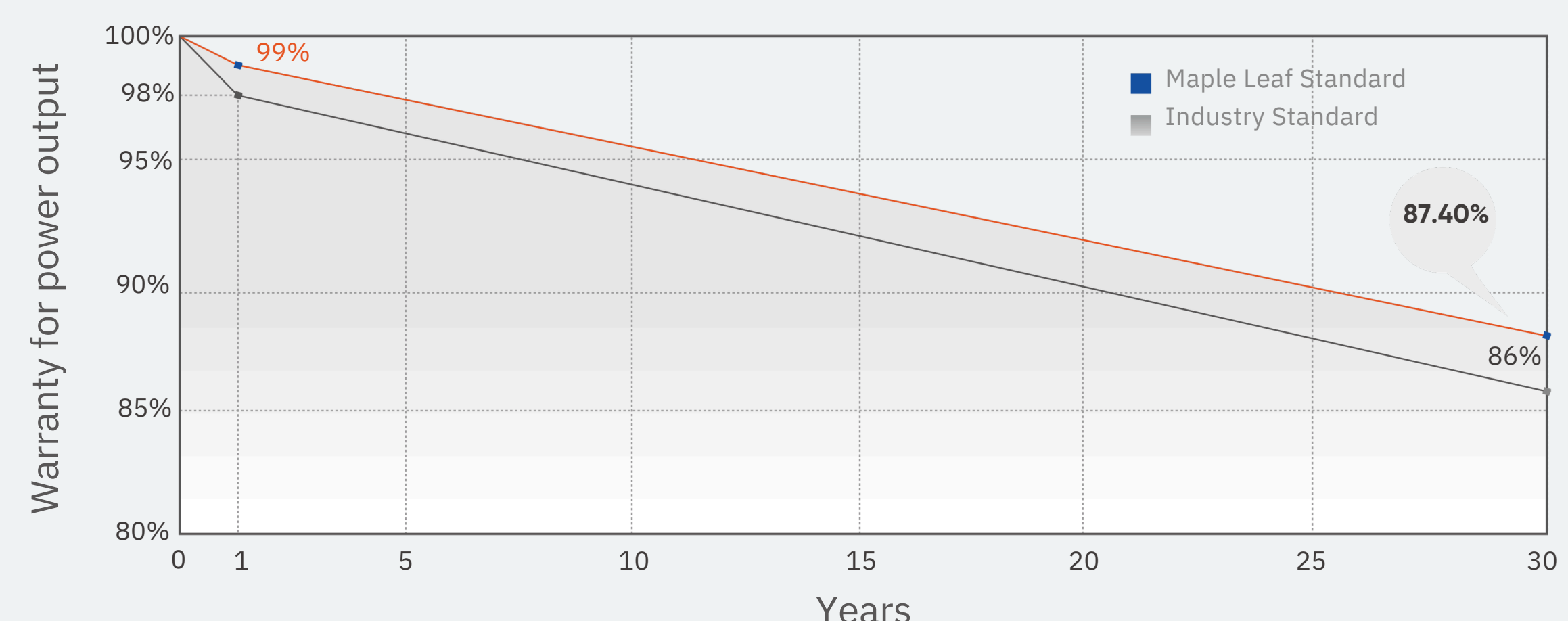
Warranty



**Materials &
Processing
Warranty**



**Extra Linear
Power
Output**



* Please refer to Maple Leaf standard warranty for details

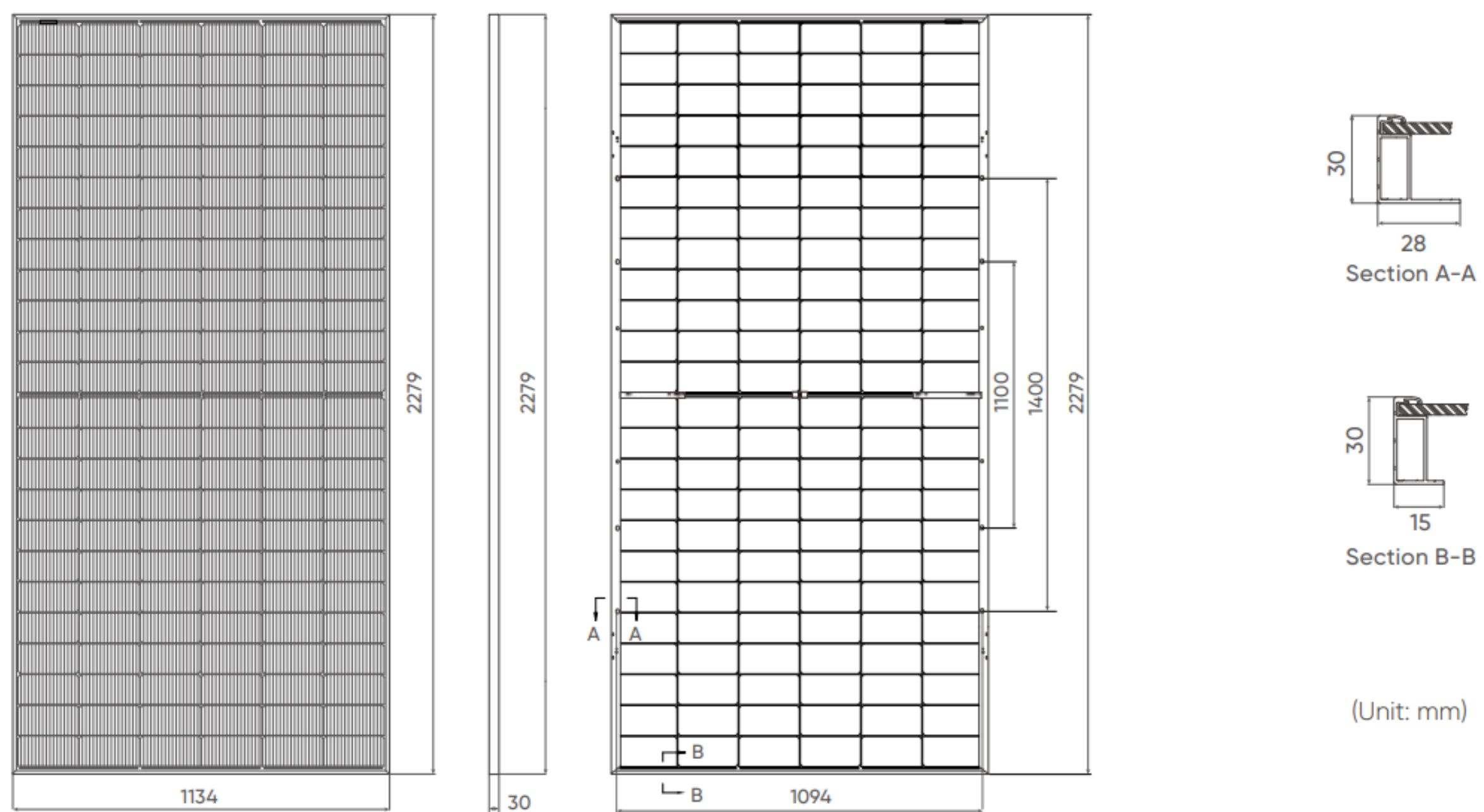
22.25%
Max. Module Efficiency

Maple Leaf 555-575W

N-type TOPCon Full Black Bifacial Dual Glass Solar Module



Drawings



Mechanical Parameters

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

Electrical Characteristics

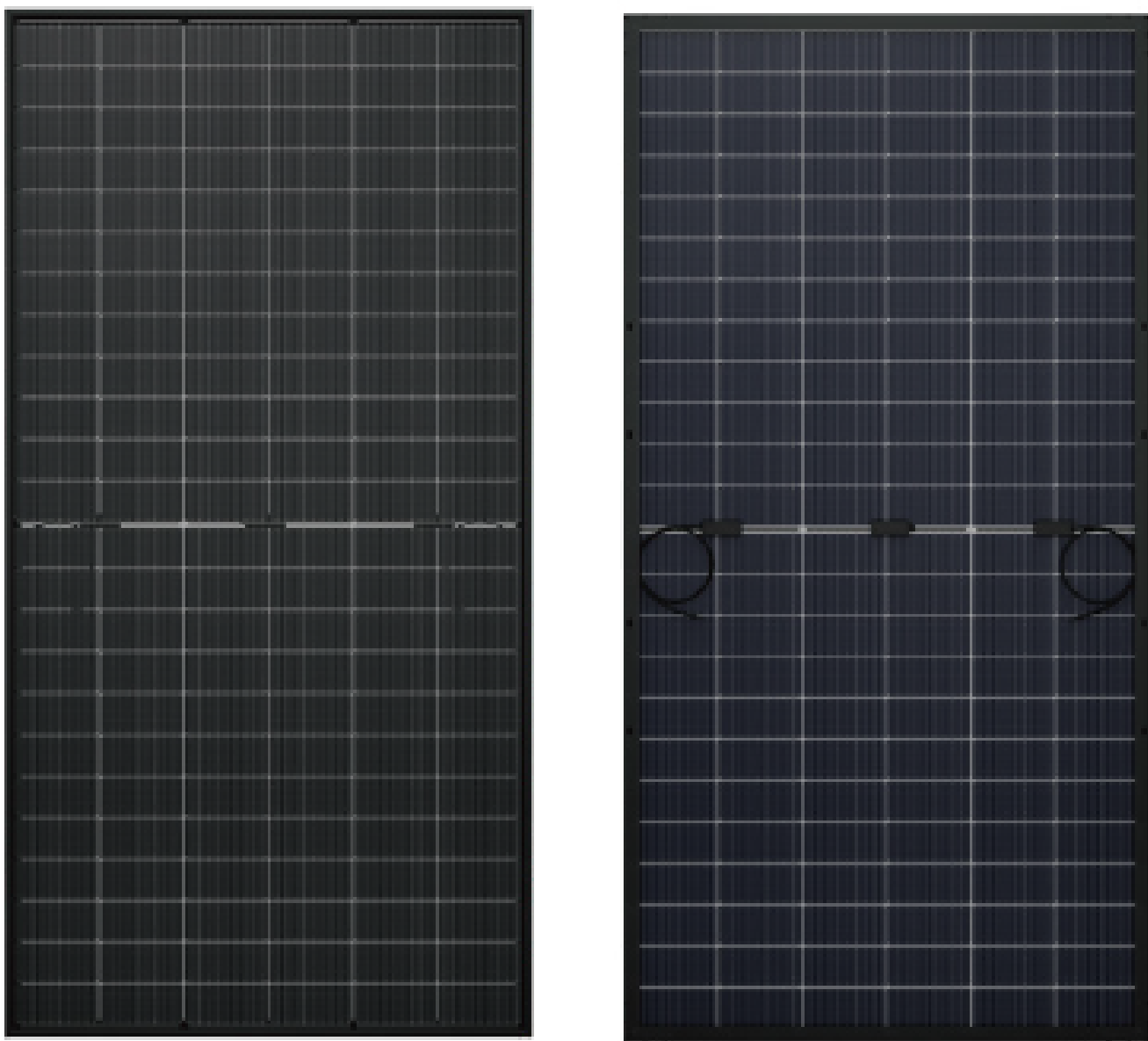
Module Type:	555	560	565	570	575
Maximum power (Pmax/W)	555	560	565	570	575
Open Circuit Voltage (Voc/V)	51.00	51.14	51.28	51.41	51.55
Short Circuit Current (Isc/A)	13.94	14.01	14.08	14.15	14.22
Voltage at Maximum power (Vmpp/V)	41.95	42.11	42.26	42.41	42.56
Current Maximum Power (Impp/A)	13.23	13.30	13.37	13.44	13.51
MODULE EFFICIENCY (%)	21.48	21.67	21.86	22.06	22.25

Bifacial Output-Rearsid Power Gain

5%	Maximum Power (Pmax/W)	583	588	593	599	604
	Module Efficiency STC (%)	22.55	22.75	22.96	23.16	23.36
15%	Maximum Power (Pmax/W)	638	644	650	656	661
	Module Efficiency STC (%)	24.70	24.92	25.14	25.36	25.59
25%	Maximum Power (Pmax/W)	694	700	706	713	719
	Module Efficiency STC (%)	26.84	27.09	27.33	27.57	27.81

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%.

Product Images



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)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.045%/°C

I-V Curve

