MAPLE LEAF
power systems

555-575W

N-type TOPCon
Bifacial Dual Glass Solar Module

Guaranteed Quality

25-Year Warranty for Materials and Processing
30-Year Warranty for Extra Linear Power Output

22.25%
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

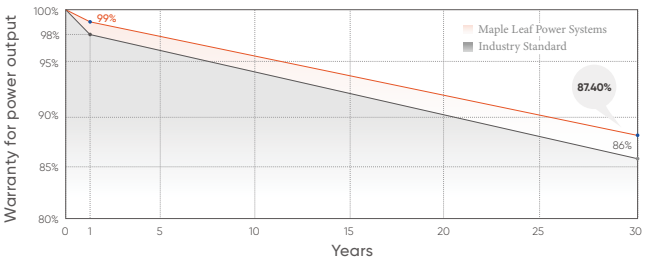
Adpoted SunEvo lastest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

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.



* Please refer to Mate Solar standard warranty for details

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 .

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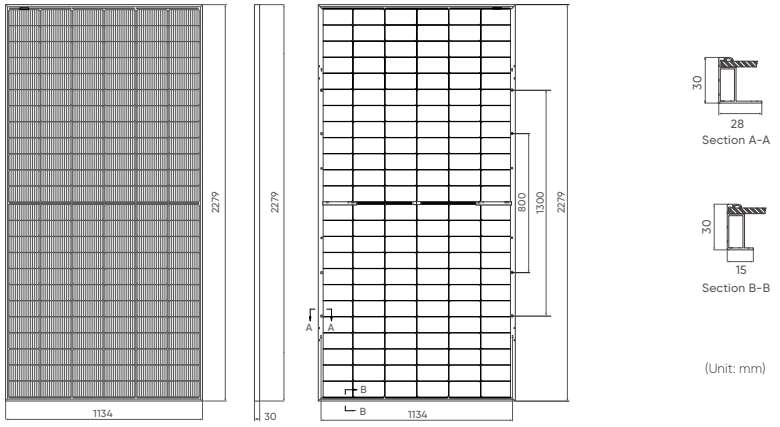
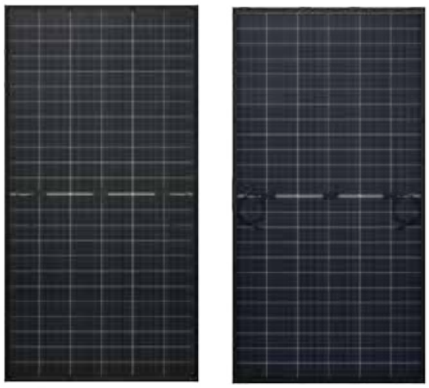
Drawings



(Unit: mm)

Product Image



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	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, 720pcs/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

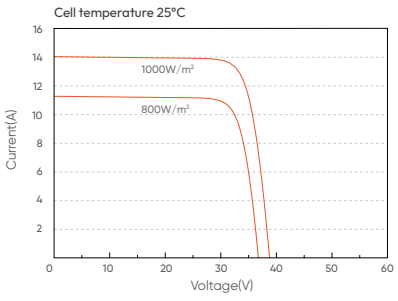
Temperature Characteristics

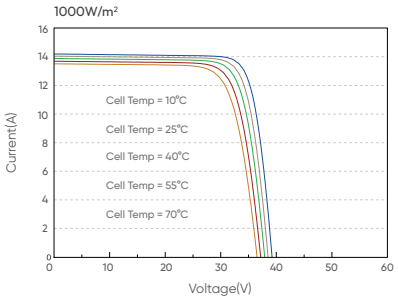
Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coeffcient of Pmax	-0.29%°C
Temperature Coeffcient of Voc	-0.25%°C
Temperature Coeffcient of Isc	+0.045%°C

Electrical Characteristics (STC*)

Module Type: **MS-72HB**	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

I-V Curve





Bifacial Output-Rearsid Power Gain

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