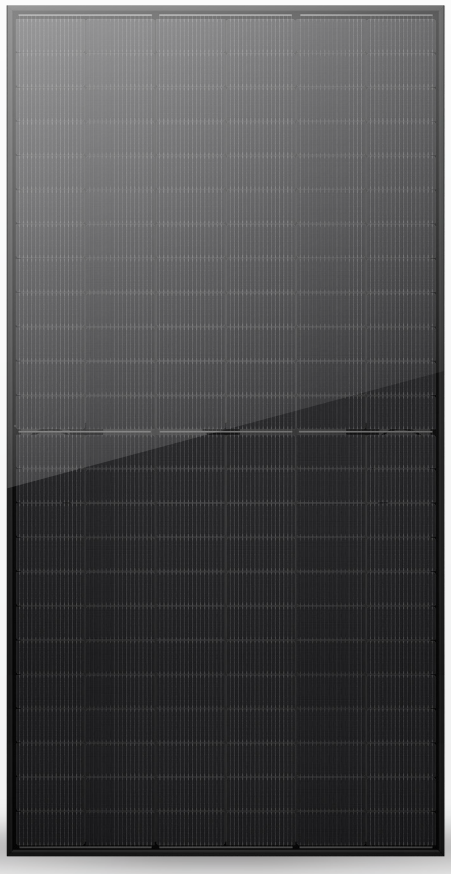
MT5-Pro

575-595W

N-type TOPCon Full Black Bifacial Dual Glass Solar Module



MS-72HB

Qualidade Garantida

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

23.02%
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

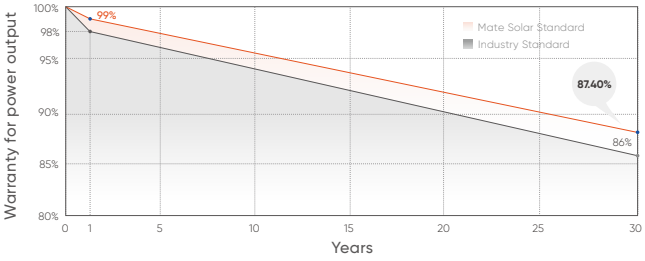
Adpoted Mate Solar lastest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

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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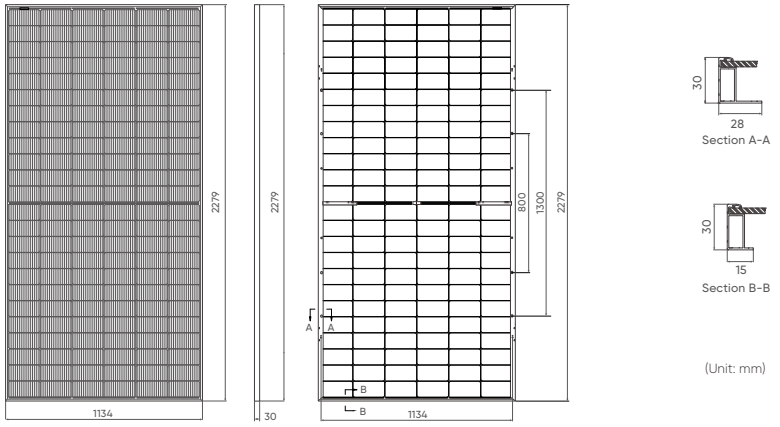
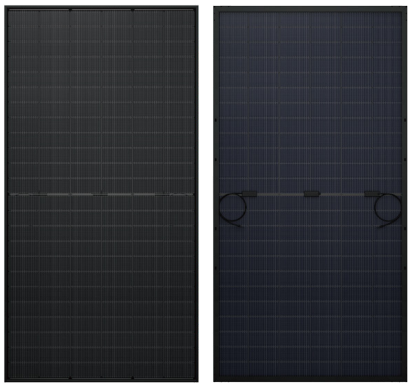
MT5-Pro MS-72HB

575-595W

Drawings



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	Black 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

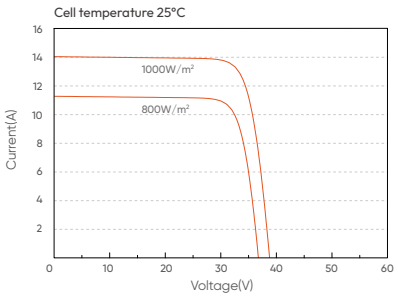
Temperature Characteristics

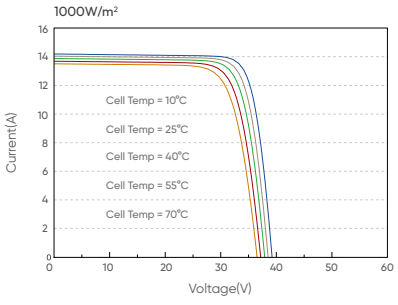
Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coeffcient of Pmax	-0.29%°C
Temperature Coeffcient of Voc	-0.25%°C
Temperature Coeffcient of Isc	+0.045%°C

Electrical Characteristics (STC*)

Module Type: **MS-72HB**	575	580	585	590	595
Maximum power (Pmax/W)	575	580	585	590	595
Open Circuit Voltage (Voc/V)	52.15	52.31	52.47	52.63	52.79
Short Circuit Current (Isc/A)	13.95	14.01	14.07	14.13	14.19
Voltage at Maximum power (Vmpp/V)	43.17	43.35	43.53	43.71	43.88
Current Maximum Power (Impp/A)	13.32	13.38	13.44	13.50	13.56
MODULE EFFICIENCY (%)	22.25	22.44	22.64	22.83	23.02

I-V Curve





Bifacial Output-Rearsid Power Gain

5%	Maximum Power (Pmax/W)	604	609	614	620	625
	Module Effciency STC (%)	23.36	23.56	23.77	23.97	24.17
15%	Maximum Power (Pmax/W)	661	667	673	679	684
	Module Effciency STC (%)	25.59	25.81	26.03	26.25	26.48
25%	Maximum Power (Pmax/W)	719	725	731	738	744
	Module Effciency STC (%)	27.81	28.05	28.29	28.54	28.78

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%.

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