

MT6-Pro

700-720W

N-type TOPCon
Bifacial Dual Glass Solar Module

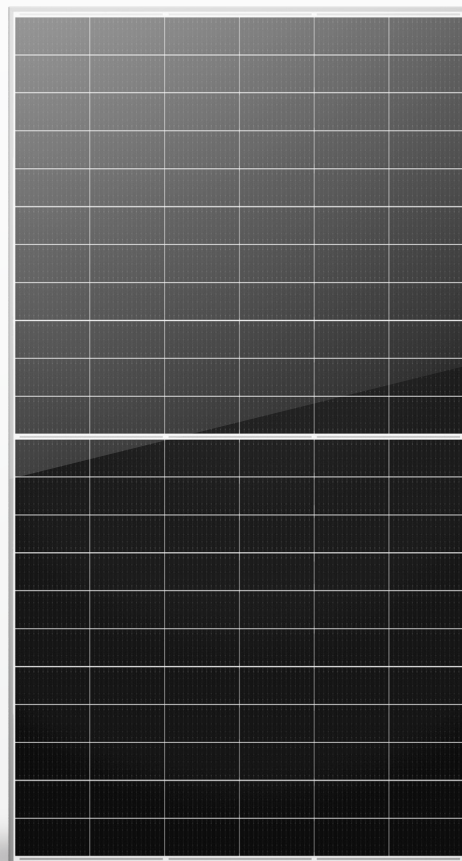
Qualidade Garantida

25-Year Warranty for Materials and Processing

30-Year Warranty for Extra Linear Power Output

23.20%

Max. Module Efficiency



MS-66HB

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

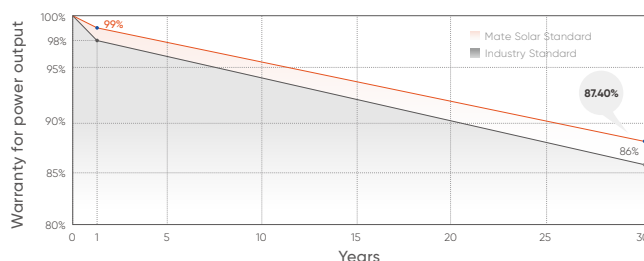
Adopted Mate Solar latest S-TOPCo 2.0 technology,
No polysilicon wrap around, Full electrical isolation,
Zero leakage current; Much Safer for roof.

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.

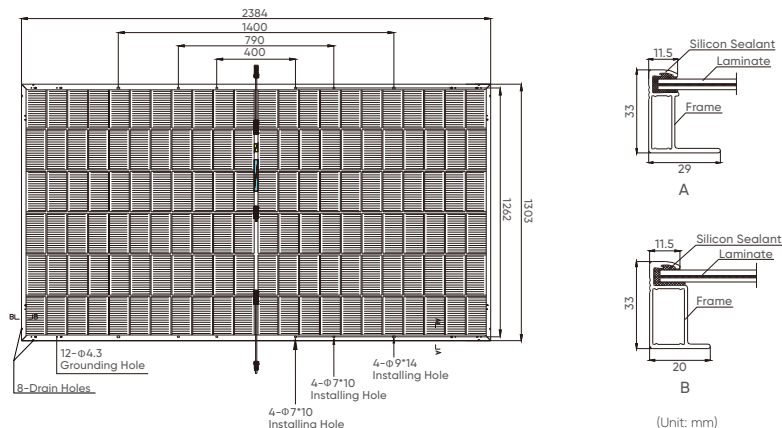
ISO 45001:2018/occupation health safety management system

ISO 50001:2011/energy management system.

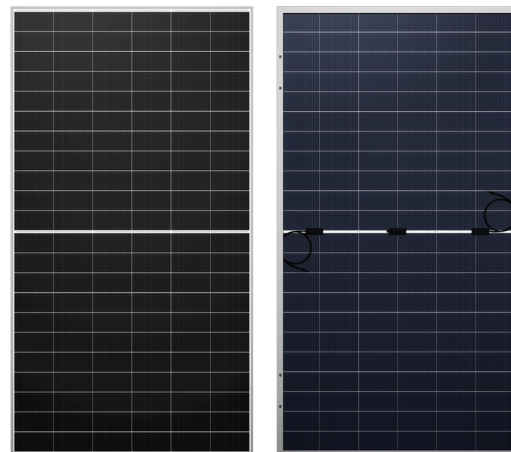
IEC TS 62941-2016/PV industry quality management system .



Drawings



Product Image



Mechanical Parameters

Solar Cells	N-type Mono
No. of Cells	132 (6×22)
Dimensions	2384 × 1303 × 35mm
Weight	37.9kg
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	31pcs per pallet, 558pcs per 40'HC

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

Electrical Characteristics (STC*)

Module Type: MS-66HB	700	705	710	715	720
Maximum power (Pmax/W)	700	705	710	715	720
Open Circuit Voltage (Voc/V)	48.60	48.77	48.94	49.11	49.28
Short Circuit Current (Isc/A)	18.35	18.40	18.45	18.50	18.55
Voltage at Maximum power (Vmpp/V)	40.35	40.52	40.69	40.86	41.03
Current Maximum Power (Impp/A)	17.35	17.40	17.45	17.50	17.55
MODULE EFFICIENCY (%)	22.50	22.70	22.90	23.00	23.20

Bifacial Output-Rearside Power Gain

5%	Maximum Power (Pmax/W)	735	740	745	750	756
	Module Efficiency STC (%)	23.70	23.80	24.00	24.10	24.30
15%	Maximum Power (Pmax/W)	805	810	816	822	828
	Module Efficiency STC (%)	25.90	26.10	26.30	26.50	26.70
25%	Maximum Power (Pmax/W)	785	881	887	893	900
	Module Efficiency STC (%)	28.20	28.40	28.60	28.70	29.00

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

