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MIO

12 year — 12-year Warranty for Materials and Processing

25 year — 25-year Warranty for Extra Linear Power Output

Bifacial Module

T144M-M10PB-A(535-550)

Solar Cells With PERC Technology
High Efficiency MONO Solar Module

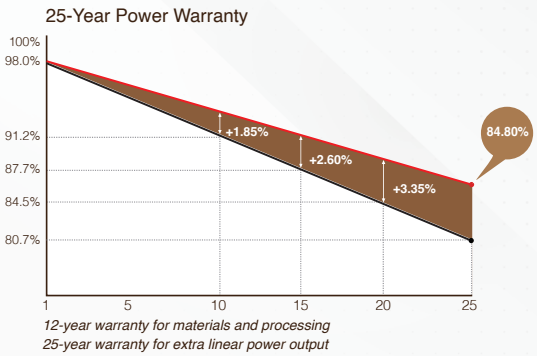
FEATURE

Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

CERTIFICATION

TUV: IEC/EN 61215, IEC/EN 61730
GB/T 19001-2016 / ISO 9001:2015
GB/T 24001-2016 / ISO 14001:2015
CHSAS: 18001:2007
CNAS-CL01: ISO/IEC 17025:2017

QUALITY ASSURANCE



- Advance production process
- Optimized MBB design
- Double-sided electricit generation

- Superior quality control
- Full automatic production line
- ISO 9000:2015 Quality Management System
- 100% three times EL and appearance inspection

+5W POSITIVE

- Excellent power generation performance
- 0~+5 positive power tolerance
- Improved low light irradiance performance

- Stable mechanical performance
- Passed rigorous hail test
- Withstands 5400 Pa Snow and 2400 Pa wind loads

PID

- Long weather resistance
- Excellent anti- PID performance
- Certified in fireproofing for safety

On-grid commerical industrial roof-tops

On-grid residential roof-tops

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T144M-M10PB-A

M10 N-type 144 Half-cut Cell | MBB BIFACIAL Mono PERC | Transparent Back Sheet

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ELECTRICAL PARAMETERS

* Measurement tolerance: Pmax:±3%, Voc:±3%, Isc:±5%.

Module Type	T144M-M10PB-A535		T144M-M10PB-A540		T144M-M10PB-A545		T144M-M10PB-A550	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax (W)	535	398.16	540	401.88	545	405.61	550	409.33
Maximum Power Voltage - Vmpp (V)	40.59	37.76	40.72	37.89	40.85	38.01	40.98	38.13
Maximum Power Current - Impp (A)	13.19	10.55	13.27	10.61	13.35	10.68	13.43	10.74
Open Circuit Voltage - Voc (V)	49.17	46.41	49.33	46.56	49.49	46.723	49.64	46.86
Short Circuit Current - Isc (A)	13.88	11.21	13.97	11.28	14.05	11.35	14.14	11.42
Module Efficiency	20.73		20.93		21.12		21.31	

STC: irradiance 1,000 W/m2; Spectra at AM 1.5; module temperature 25°C. Power output tolerance: 0~+5W. Measuring tolerance of power: ±3%
NMOT: irradiance 800 W/m2; Spectra at AM 1.5; Cell temperature 45°C; Ambient temperature 20°C. Wind speed 1m/s

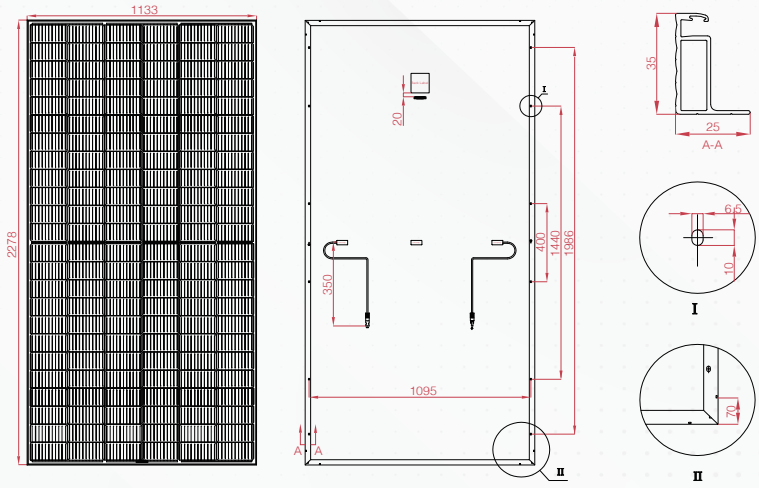
BIFACIAL REARSIDE POWER GAIN

Electrical characteristics with different rear side power gain for reference to 545W front.

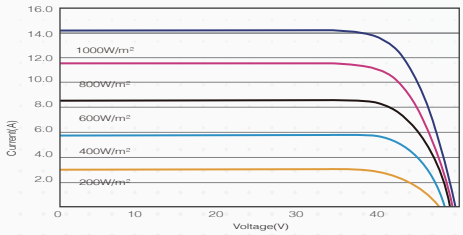
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
588.5W	10%	49.19	15.26	40.61	14.5
615.25W	15%	49.21	15.95	40.62	15.15
642W	20%	49.22	16.64	40.63	15.81
668.75W	25%	49.23	17.32	40.64	16.46

Bifacial gain: the additional gain from the rear side compared to the power of the front side at the standard test condition.
It depends on mounting (structure, height, tilt angle, etc.) and albedo of the ground.

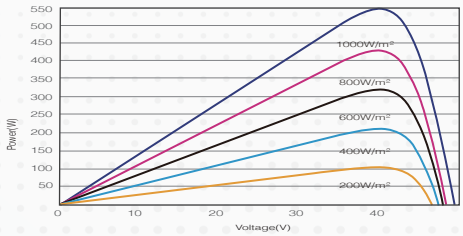
DIMENSIONS OF PV MODULE



I -V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells (mm)	182 x 91 Mono PERC
Cell Orientation	144 Cells (6 x 24)
Module Dimensions (L*W*H)	2278 x 1133 x 30mm
Weight (Kg)	28 kg
Glass	3.2 mm coated tempered glass
Backsheet	Transparent
Frame	Silver anodized aluminum alloy
J-Box	IP68, 3 bypass diodes
Cables	Length 350mm, 1x4.0mm²
Connector	MC4 and MC4 Compatible
PACKING CONFIGURATION	Module per box: 31 Pieces

TEMPERATURE RATINGS

NMOT	45°C (±2°C)
Temperature Coefficient of Pmax	-0.348%/°C
Temperature Coefficient of Voc	-0.282%/°C
Temperature Coefficient of Isc	+0.055%/°C

MAXIMUN RATING

Operational Temperature (°C)	-40°C to +85°C
Maximum System Voltage (VDC)	1500
Max Series Fuse Rating (A)	25
Mechanical Load Front (Pa)	5,400
Mechanical Load Back (Pa)	2,400
MODULE PER CONTAINER	620 PCs / 40'HC

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCTS.

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