



M6



12-year Warranty for Materials and Processing



25-year Warranty for Extra Linear Power Output

Bifacial Module
T144M-M6PB-A(425-445)

Solar Cells With PERC Technology
High Efficiency MONO Solar Module

FEATURE

The product adopts MBB high efficiency PERC cell combined with half cut. It can cope with the rising efficiency and diversification demand of residential roofs, industrial and commercial roofs, and large ground power stations.



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



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



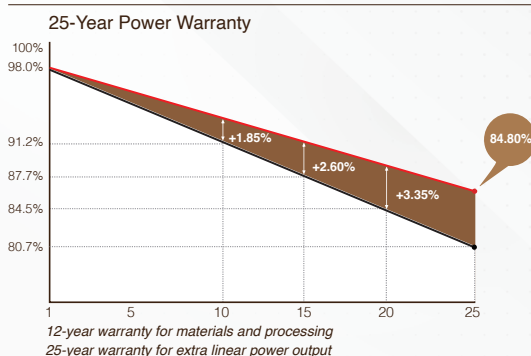
Long weather resistance
Excellent anti- PID performance
Certified in fireproofing for safety

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



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T144M-M6P-A

M6-144 Half-Cut Cell | MBB BIFACIAL Mono PERC | White Back Sheet

ELECTRICAL PARAMETERS

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

Module Type	T144M-M6PB-	A425		A430		A435		A440		A445	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power - Pmax (W)		425	314.73	430	318.43	435	322.14	440	325.84	445	329.54
Maximum Power Voltage - Vmpp (V)		40.38	37.34	40.58	37.52	40.78	37.71	40.98	37.89	41.18	38.08
Maximum Power Current - Imp (A)		10.53	8.43	10.6	8.48	10.67	8.54	10.74	8.8	10.81	8.65
Open Circuit Voltage - Voc (V)		49.15	45.83	49.39	46.05	49.64	46.28	49.88	46.51	50.12	46.73
Short Circuit Current - Isc (A)		11.05	8.88	11.12	8.93	11.2	9	11.27	9.05	11.34	9.11
Module Efficiency (%)		19.56		19.79		20.02		20.25		20.48	

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

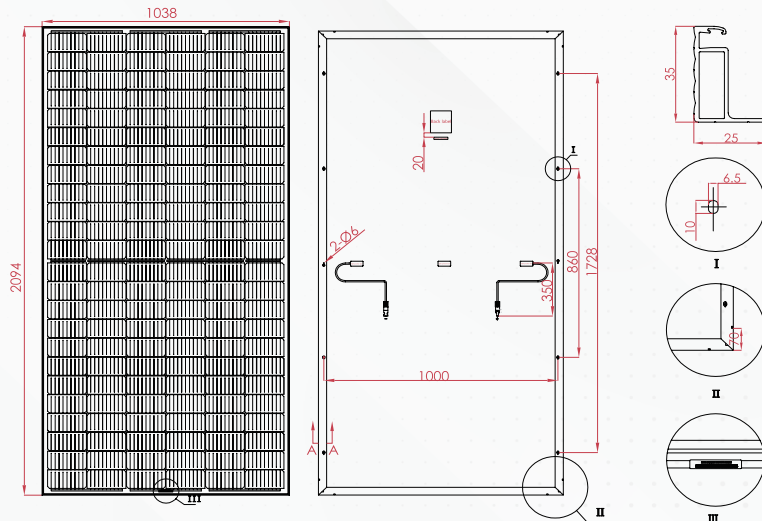
BIFACIAL REARSIDE POWER GAIN

Electrical characteristics with different rear side power gain for reference to 435W front.

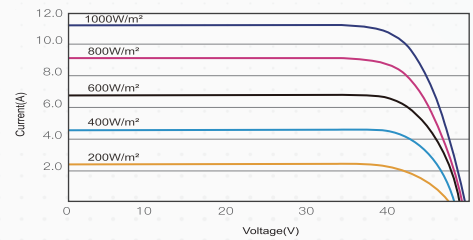
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
484W	10%	48.73	12.55	40.98	11.82
506W	15%	48.74	13.11	40.99	12.35
528W	20%	48.75	13.67	41	12.88
550W	25%	49.57	14.6	41.01	13.75

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.

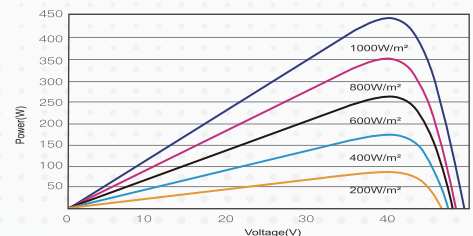
DIMENSIONS OF PV MODULE



I - V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells (mm)	166 x 83 Mono Bifacial
Cell Orientation	144 Cells (6 x 24)
Module Dimensions (L*W*H)	2094 x 1038 x 35mm
Weight (Kg)	20 kg
Glass	3.2 mm coated tempered glass
Backsheet	Transparent
Frame	Silver anodized aluminum alloy
J-Box	IP68, 3 bypass diodes
Cables	Length 350mm, 1x4.0mm ²
Connector	MC4 and MC4 Compatible

TEMPERATURE RATINGS

NMOT	45°C (±2°C)
Temperature Coefficient of Pmax	-0.365%/°C
Temperature Coefficient of Voc	-0.285%/°C
Temperature Coefficient of Isc	+0.055%/°C
MAXIMUM RATING	
Operational Temperature (°C)	-40°C to +85°C
Maximum System Voltage (VDC)	1500
Max Series Fuse Rating (A)	20
Mechanical Load Front (Pa)	5,400
Mechanical Load Back (Pa)	2,400

PACKING CONFIGURATION

Module per box: 31 Pieces

MODULE PER CONTAINER

726 PCs / 40'HC

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

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