









Bifacial Module NB144M-M6PB-A(425~445)

Solar Cells With PERC Technology High Efficiency MONO Solar Module

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.



Mono MBB half cut technology Double-sided electricity generation



Production process reliability test



3 times EL test to ensure best quality



Competitive low light performance



Less mismatch to get more power



Less power loss by minimizing the shading impact



Ideal choice for utility and commercial scale projects by reduced BOS and improved ROI



Outstanding reliability proven by PVEL for stringent environment condition: Sand, Acid, Salt, Hailstones Anti-PID

QUALITY ASSURANCE



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



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NB144M-M6PB-A

M6-144 Half-Cut Cell | MBB Mono PERC | Bifacial Module



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

Module Type NB144M-M6PB-	A4	25	A4	30	A4	35	A4	140	A4	45
Testing Condition	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 - Impp (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

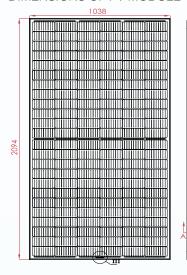
STC: irradiance 1,000 W/m2; Spectra at AM 1.5; module temperature 25°C. Power output tolerance: 0~+5W. Measuring tolerance of power: ±3% NMOT: irradiance 800 W/m2; Spectra at AM 1.5; Cell temperature 45°C; Ambient temperature 20°C. Wind speed 1m/s

BIFACIAL REARSIDE POWER GAIN Electrical characteristics with different rear side power gain for reference to 340W front.

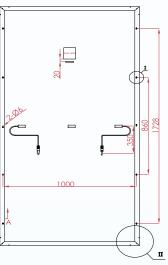
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
484W	10%	48.73	12.55	40.98	11.82
506W	15%	48.74	13.11	40.99	12.35
528W	20%	48.75	13.67	41	12.88
550W	25%	49.57	14.6	41.01	13.75

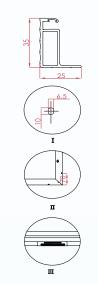
Bifacial gain: the additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle, etc.) and albedo of the ground.

DIMENSIONS OF PV MODULE

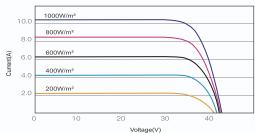


PACKING CONFIGURATION

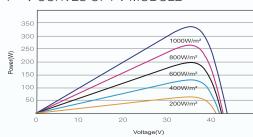




I-V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



726 Pieces

MECHANICAL DATA		TEMPERATURE RATINGS		
Solar Cells (mm)	166 x 83 Mono Bifacial PERC	NMOT	45°C (±2°C)	
Cell Orientation	144 Cells (6 x 24)	Temperature Coefficient of Pmax	-0.365%/°C	
Module Dimensions (L*W*H)	2094 x 1038 x 35mm	Temperature Coefficient of Voc	-0.285%/°C	
Weight (Kg)	23.5 kg	Temperature Coefficient of Isc	+0.055%/°C	
Glass	3.2 mm coated tempered glass	MAXIMUN RATING		
Backsheet	Transpaent	Operational Temperature (°C)	-40°C to +85°C	
Frame	Sliver anodized aluminum alloy	Maximum System Voltage (VDC)	1500	
J-Box	IP68, 3 bypass diodes	Max Series Fuse Rating (A)	20	
Cables	Length 350mm, 1x4.0mm²	Mechanical Load Front (Pa)	5,400	
Connector	MC4 and MC4 Compatible	Mechanical Load Back (Pa)	2,400	

MODULE PER CONTAINER

Module per box: 31 Pieces