



GI

12 YEARS

Guarantee on product material and workmanship

25 YEARS

Linear power output warranty

NB144M-G1P-A(395~415) Solar Cells With PERC Technology High Efficiency MONO Solar Module

The modules adopt MBB, PERC cells and half-cut technology. The technology can reduce BOS cost for per wattage, at the same time, the half-cut technology can effectively reduce the heat spot risk of high power modules and show better power generation performance and reliability in system application.



Mono MBB half cut technology



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

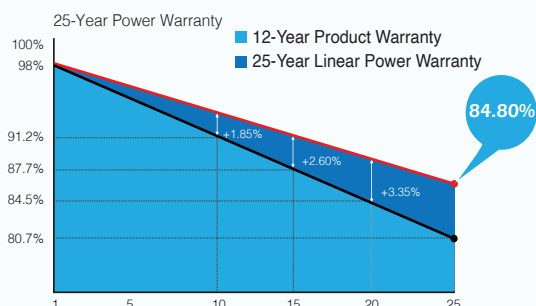


Ideal choice for utility and commercial scale projects by reduced BOS and improved ROI



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-G1P-A

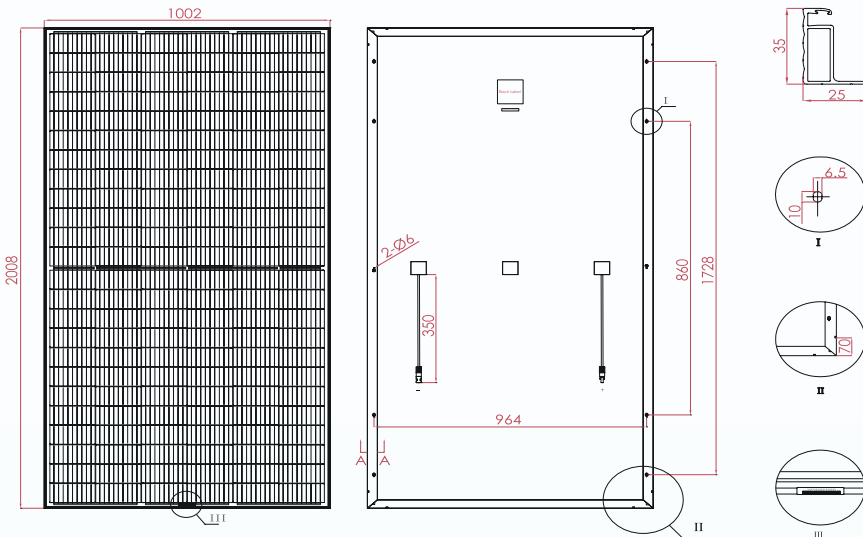
G1-144 Half-Cut Cell | MBB Mono PERC | White Back Sheet

ELECTRICAL PARAMETERS

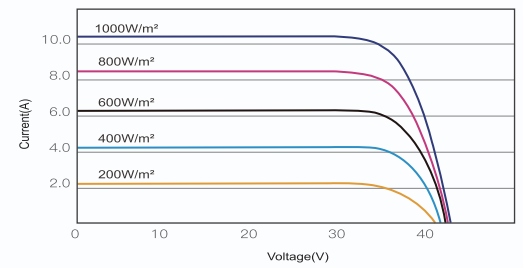
* Measurement tolerance: Pmax:±3%, Voc:±3%, Isc:±5%.

Module Type	NB144M-G1P-	A395	A400	A405	A410	A415
STC AM1.5, 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	395	400	405	410	415
	Output Tolerance (W)	0-+5	0-+5	0-+5	0-+5	0-+5
	Max. Power Voltage (Vmp/V)	41.44	41.73	42.07	42.41	42.75
	Max. Power Current (Imp/A)	9.54	9.59	9.63	9.67	9.71
	Open Circuit Voltage (Voc/V)	49.54	49.89	50.30	50.71	51.11
	Short Circuit Current (Isc/A)	10.22	10.27	10.32	10.36	10.41
	Module Efficiency (%)	19.64	19.89	20.13	20.38	20.63
NOCT AM1.5, 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NOCT (Pmpp/W)	299	303	307	310.8	314.97
	Max. Power Voltage (Vmp/V)	39.34	39.61	39.94	40.26	40.59
	Max. Power Current (Imp/A)	7.59	7.63	7.66	7.69	7.73
	Open Circuit Voltage (Voc/V)	48.24	48.58	48.98	49.38	49.77
	Short Circuit Current (Isc/A)	8.08	8.12	8.16	8.19	8.23

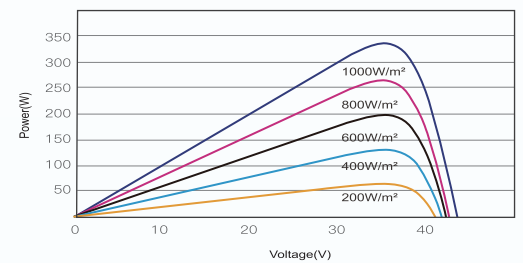
DIMENSIONS OF PV MODULE



I - V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells (mm)	158.75 x 79.375 Mono PERC
Cell Orientation	144 Cells (6 x 24)
Module Dimensions (L*W*H)	2008 x 1002 x 35mm
Weight (Kg)	22.4 kg
Glass	3.2 mm coated tempered glass
Backsheet	White
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	-0.387%/°C
Temperature Coefficient of Voc	-0.282%/°C
Temperature Coefficient of Isc	+0.041%/°C
MAXIMUM RATING	
Operational Temperature (°C)	-40°C to +85°C
Maximum System Voltage (VDC)	1000 / 1500
Max Series Fuse Rating (A)	15 / 20
Mechanical Load Front (Pa)	5,400
Mechanical Load Back (Pa)	2,400

PACKING CONFIGURATION

Module per box: 31 Pieces

MODULE PER CONTAINER

748 Pieces

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

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