

612



Guarantee on product material and workmanship



Linear power output warranty

**Black Frame
NB80M-G12P-B(390~410)**

**Solar Cells With PERC Technology
High Efficiency MONO Solar Module**

The Module strengthens the module density, greatly improves the power and efficiency. At the same time, it has the advantages of flexible installation, cost saving, good system adaptation. High reliability, easy transportation, environmental protection and so on.



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

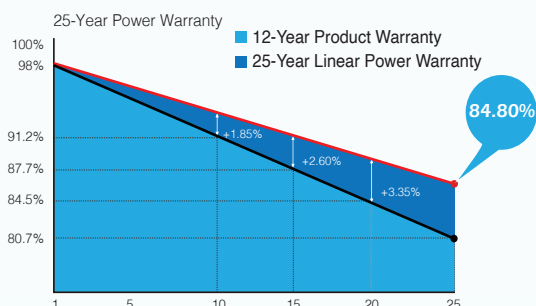


Ideal choice for utility and commercial scale projects by reduced BOS and improved ROI



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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NB80M-G12P-B

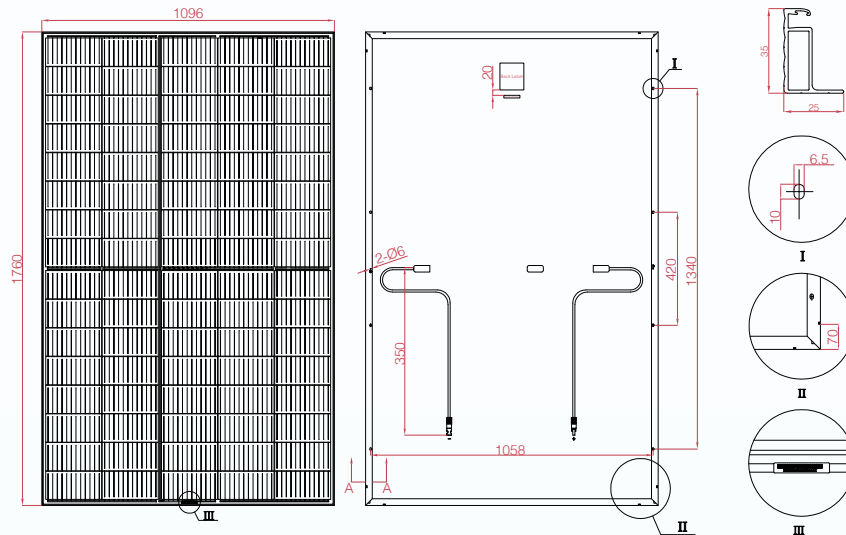
G12-80 Half-Cut Cell | MBB Mono PERC | Black Frame

ELECTRICAL PARAMETERS

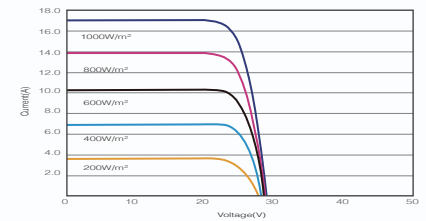
* Measurement tolerance: Pmax:±3%, Voc:±3%, Isc:±5%.

Module Type	NB80M-G12P-	B390	B395	B400	B405	B410
STC AM1.5, 1000W/m ² Cell Temperature 25°C	Max. Power at STC (Pmpp/W)	390	395	400	405	410
	Output Tolerance (W)	0+5	0+5	0+5	0+5	0+5
	Max. Power Voltage (Vmp/V)	24.0	24.2	24.4	24.6	24.8
	Max. Power Current (Imp/A)	16.26	16.32	16.39	16.45	16.54
	Open Circuit Voltage (Voc/V)	28.9	29.1	29.4	29.6	29.8
	Short Circuit Current (Isc/A)	17.26	17.33	17.40	17.47	17.51
	Module Efficiency (%)	20.2	20.5	20.7	21.0	21.2
NOCT AM1.5, 800W/m ² Ambient Temperature 20°C Wind Speed 1m/s	Max. Power at NOCT (Pmpp/W)	295	299	302	306	309
	Max. Power Voltage (Vmp/V)	22.3	22.5	22.7	22.9	23.1
	Max. Power Current (Imp/A)	13.22	13.27	13.33	13.37	13.38
	Open Circuit Voltage (Voc/V)	27.2	27.5	27.7	27.9	28.1
	Short Circuit Current (Isc/A)	13.91	13.96	14.02	14.07	14.13

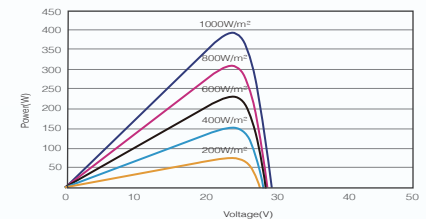
DIMENSIONS OF PV MODULE



I - V CURVES OF PV MODULE



P - V CURVES OF PV MODULE



MECHANICAL DATA

Solar Cells (mm)	G12 Mono PERC	NMOT	45°C (±2°C)
Cell Orientation	80 Cells	Temperature Coefficient of Pmax	-0.362%/°C
Module Dimensions (L*W*H)	1760 x 1096 x 35mm	Temperature Coefficient of Voc	-0.262%/°C
Weight (Kg)	21.5 kg	Temperature Coefficient of Isc	+0.042%/°C
Glass	3.2 mm coated tempered glass	MAXIMUM RATING	
Backsheet	White	Operational Temperature (°C)	-40°C to +85°C
Frame	Black anodized aluminum alloy	Maximum System Voltage (VDC)	1500
J-Box	IP68, 3 bypass diodes	Max Series Fuse Rating (A)	30
Cables	Length 350mm, 1x4.0mm ²	Mechanical Load Front (Pa)	5,400
Connector	MC4 and MC4 Compatible	Mechanical Load Back (Pa)	2,400

PACKING CONFIGURATION

Module per box: 31 Pieces

MODULE PER CONTAINER

832 PCs / 40'HC

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

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