



612



Guarantee on product material and workmanship



Linear power output warranty

## NB132M-G12P-A(650~670) 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

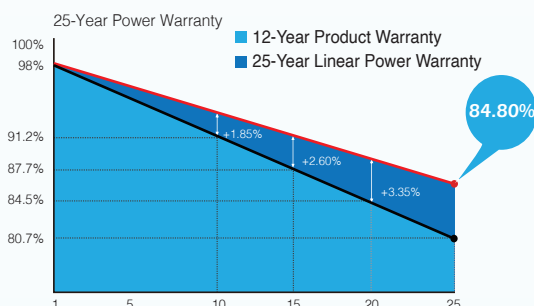


Ideal choice for utility and commercial scale projects by reduced BOS and improved ROI



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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# NB132M-G12P-A

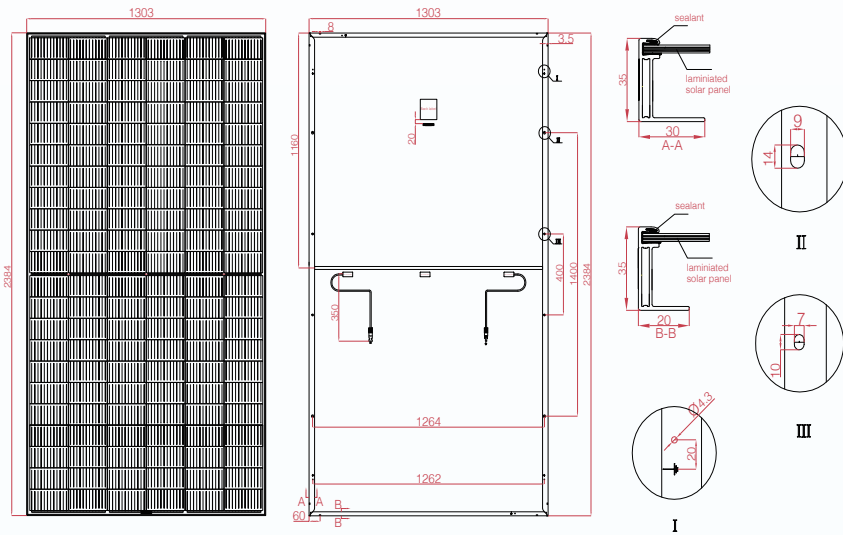
G12-100 Half-Cut Cell | MBB Mono PERC | White Back Sheet

## ELECTRICAL PARAMETERS

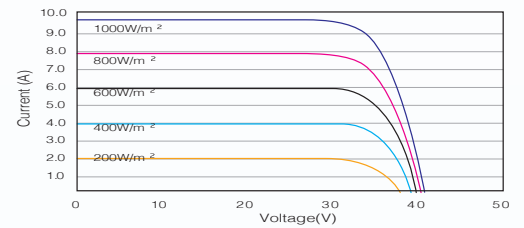
\* Measurement tolerance: Pmax:±3%, Voc:±3%, Isc:±5%.

| Module Type                                                                       | NB132M-G12P-                  | A650   | A655   | A660   | A665   | A670   |
|-----------------------------------------------------------------------------------|-------------------------------|--------|--------|--------|--------|--------|
| STC<br>AM1.5, 1000W/m <sup>2</sup><br>Cell Temperature 25°C                       | Max. Power at STC (Pmp/W)     | 650    | 655    | 660    | 665    | 670    |
|                                                                                   | Output Tolerance (W)          | 0-+5   | 0-+5   | 0-+5   | 0-+5   | 0-+5   |
|                                                                                   | Max. Power Voltage (Vmp/V)    | 36.79  | 37.00  | 37.21  | 37.42  | 37.63  |
|                                                                                   | Max. Power Current (Imp/A)    | 17.67  | 17.71  | 17.74  | 17.78  | 17.81  |
|                                                                                   | Open Circuit Voltage (Voc/V)  | 44.34  | 44.59  | 44.85  | 45.10  | 45.35  |
|                                                                                   | Short Circuit Current (Isc/A) | 18.76  | 18.80  | 18.84  | 18.88  | 18.91  |
|                                                                                   | Module Efficiency (%)         | 20.93  | 21.09  | 21.25  | 21.41  | 21.57  |
| NOCT<br>AM1.5, 800W/m <sup>2</sup><br>Ambient Temperature 20°C<br>Wind Speed 1m/s | Max. Power at NOCT (Pmp/W)    | 492.07 | 495.85 | 499.64 | 503.42 | 507.21 |
|                                                                                   | Max. Power Voltage (Vmp/V)    | 34.24  | 34.43  | 34.63  | 34.82  | 35.02  |
|                                                                                   | Max. Power Current (Imp/A)    | 14.37  | 14.40  | 14.42  | 14.46  | 14.48  |
|                                                                                   | Open Circuit Voltage (Voc/V)  | 41.79  | 42.03  | 42.26  | 42.50  | 42.74  |
|                                                                                   | Short Circuit Current (Isc/A) | 15.11  | 15.15  | 15.17  | 15.21  | 15.23  |

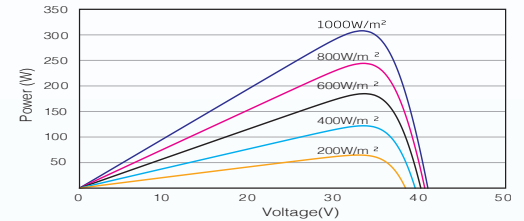
## DIMENSIONS OF PV MODULE



## I - V CURVES OF PV MODULE



## P - V CURVES OF PV MODULE



## MECHANICAL DATA

|                           |                                    |
|---------------------------|------------------------------------|
| Solar Cells (mm)          | 210 x 105 Mono PERC                |
| Cell Orientation          | 132 Cells (11 x 12)                |
| Module Dimensions (L*W*H) | 2384×1303×35mm                     |
| Weight (Kg)               | 33.5 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 <sup>2</sup> |
| Connector                 | MC4 and MC4 Compatible             |

## TEMPERATURE RATINGS

|                                 |                |
|---------------------------------|----------------|
| NMOT                            | 45°C (±2°C)    |
| Temperature Coefficient of Pmax | -0.362%/°C     |
| Temperature Coefficient of Voc  | -0.262%/°C     |
| Temperature Coefficient of Isc  | +0.042%/°C     |
| <b>MAXIMUM RATING</b>           |                |
| Operational Temperature (°C)    | -40°C to +85°C |
| Maximum System Voltage (VDC)    | 1500           |
| Max Series Fuse Rating (A)      | 30             |
| Mechanical Load Front (Pa)      | 5,400          |
| Mechanical Load Back (Pa)       | 2,400          |

## PACKING CONFIGURATION

Module per box: 31 Pieces

## MODULE PER CONTAINER

558 Pieces

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

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