

## N-TYPE MODULE **590-615W**

N-type panels  
with G12R cells  
High Efficiency Module

- 0 ~ +5W power tolerance
- SMBB Technology+G12R cells
- Up to 30% additional power gain  
from back side depending on albedo
- Enhanced reliability



22.76%

Maximum  
conversion efficiency

0-+5W

Power  
tolerance

1%

First year  
power attenuation

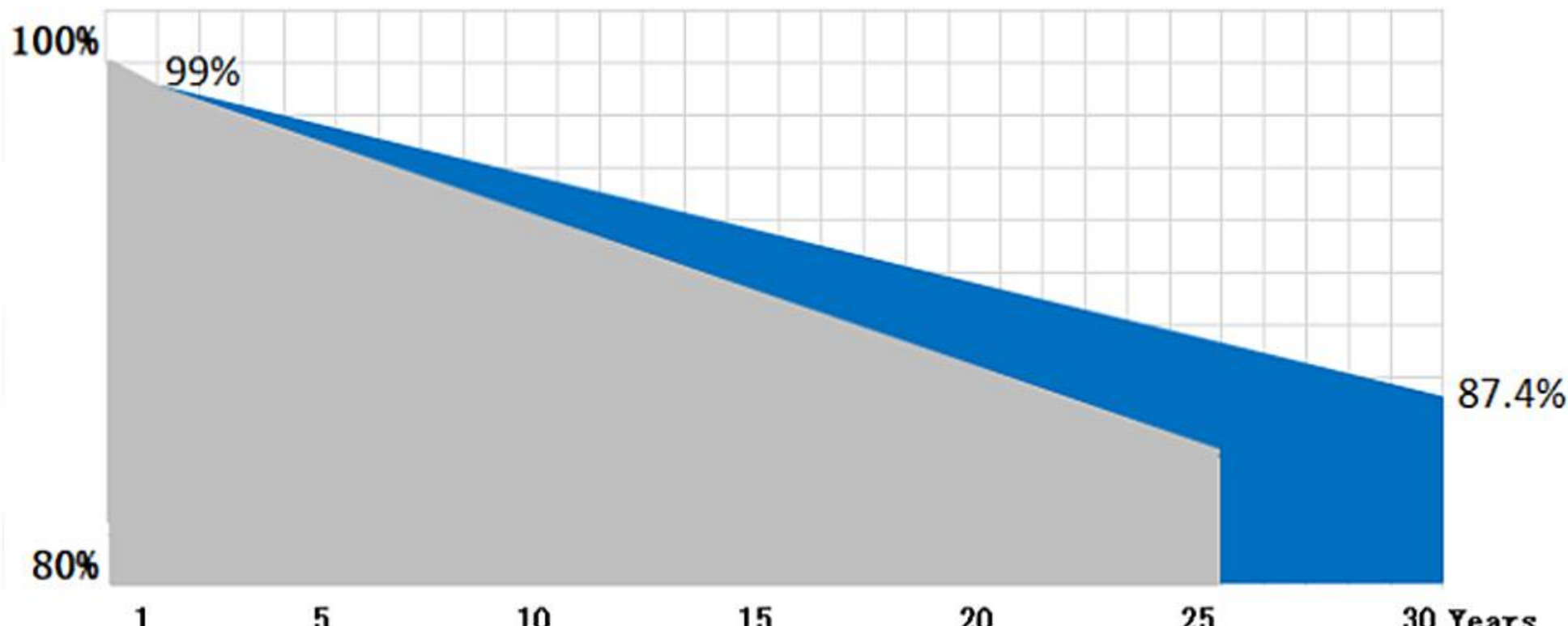
0.4%

Annual power  
attenuation for 2-30 years

HALF-SLICE TECHNIQUE

Lower temperature  
coefficient

EXCESS EARNINGS



100% 99% 87.4% 80% 1 5 10 15 20 25 30 Years

Solar Cells: Mono

Number of Cells: 132pcs

Module Dimension : 2382×1134×30mm

Weight: 33 kg±3%

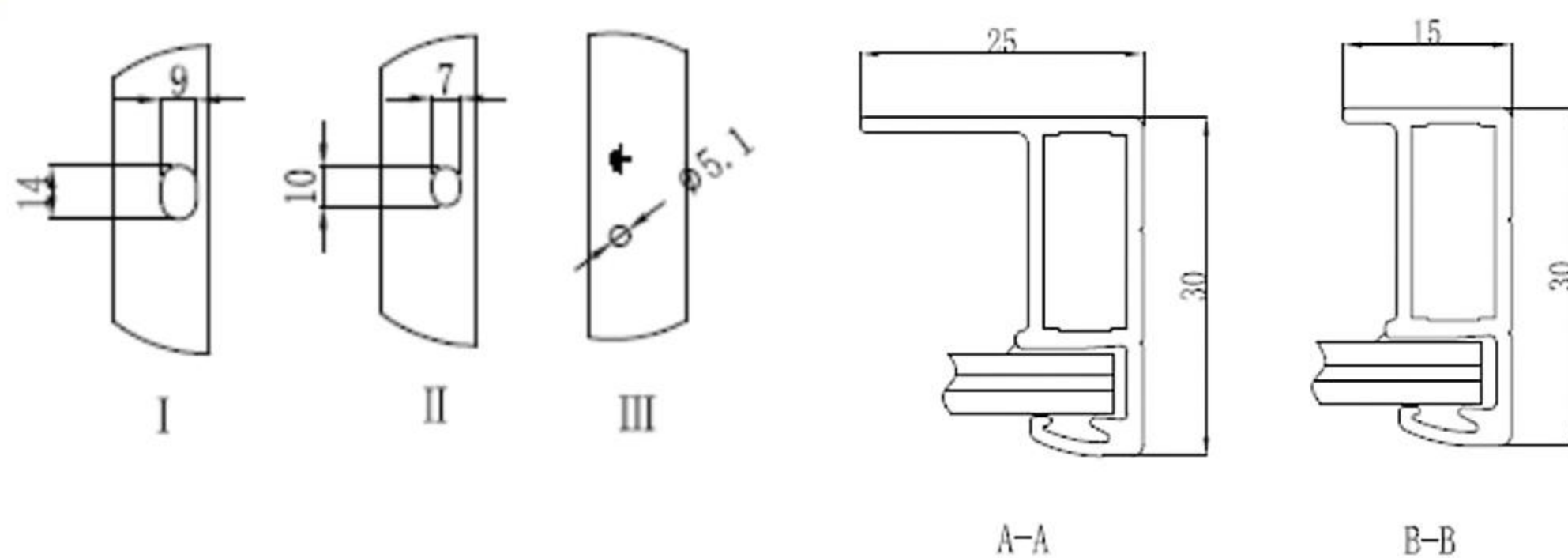
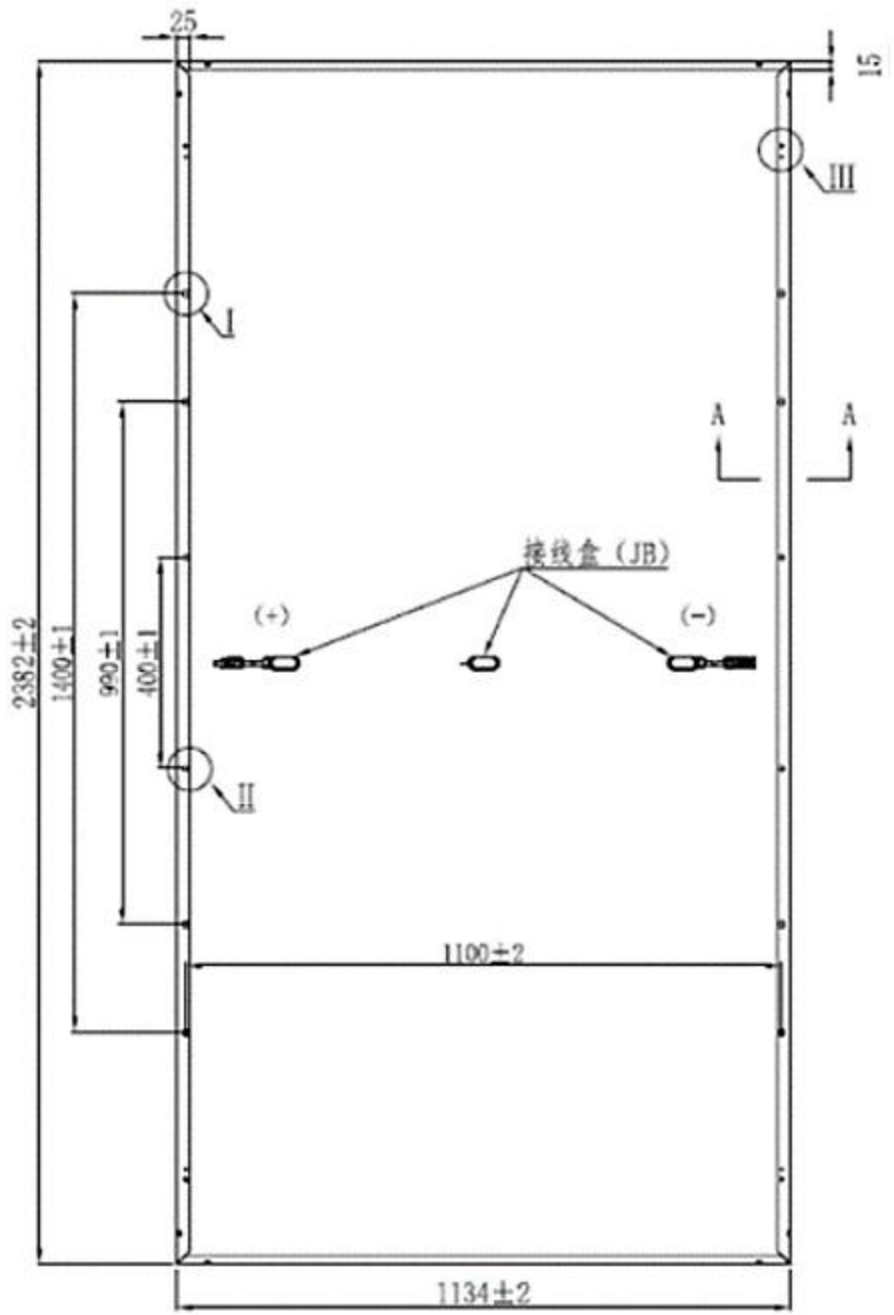
Snow/Wind Load: 5400/2400 Pa

Thickness of Glass: dual 2.0mm

Junction Box: IP68, 3 Diodes

Connector: HTC-16, IP68

Length: (+)250mm /(-)300mm(including connector)



Electrical Specifications @STC

| Pmax (W)<br>0-+5W | Umpp (V) | Impp(A) | Uoc (V)<br>±3% | Isc(A)<br>±3% | Module<br>Efficiency | Max System<br>Voltage | Max Series<br>Fuse | Bifacial Gain<br>5% (W) | Bifacial Gain<br>15% (W) | Bifacial Gain<br>25% (W) |
|-------------------|----------|---------|----------------|---------------|----------------------|-----------------------|--------------------|-------------------------|--------------------------|--------------------------|
| 595               | 39.97    | 14.89   | 48.07          | 15.76         | 22.03%               | 1500V                 | 30A                | 619                     | 666                      | 714                      |
| 600               | 40.25    | 14.91   | 48.38          | 15.80         | 22.21%               | 1500V                 | 30A                | 624                     | 672                      | 720                      |
| 605               | 40.50    | 14.94   | 48.66          | 15.83         | 22.40%               | 1500V                 | 30A                | 629                     | 678                      | 726                      |
| 610               | 40.77    | 14.96   | 48.98          | 15.86         | 22.58%               | 1500V                 | 30A                | 634                     | 683                      | 732                      |
| 615               | 41.03    | 14.99   | 49.29          | 15.89         | 22.77%               | 1500V                 | 30A                | 640                     | 689                      | 738                      |

Temperature Parameter

I-V Curve LSTDMRH132P-615W

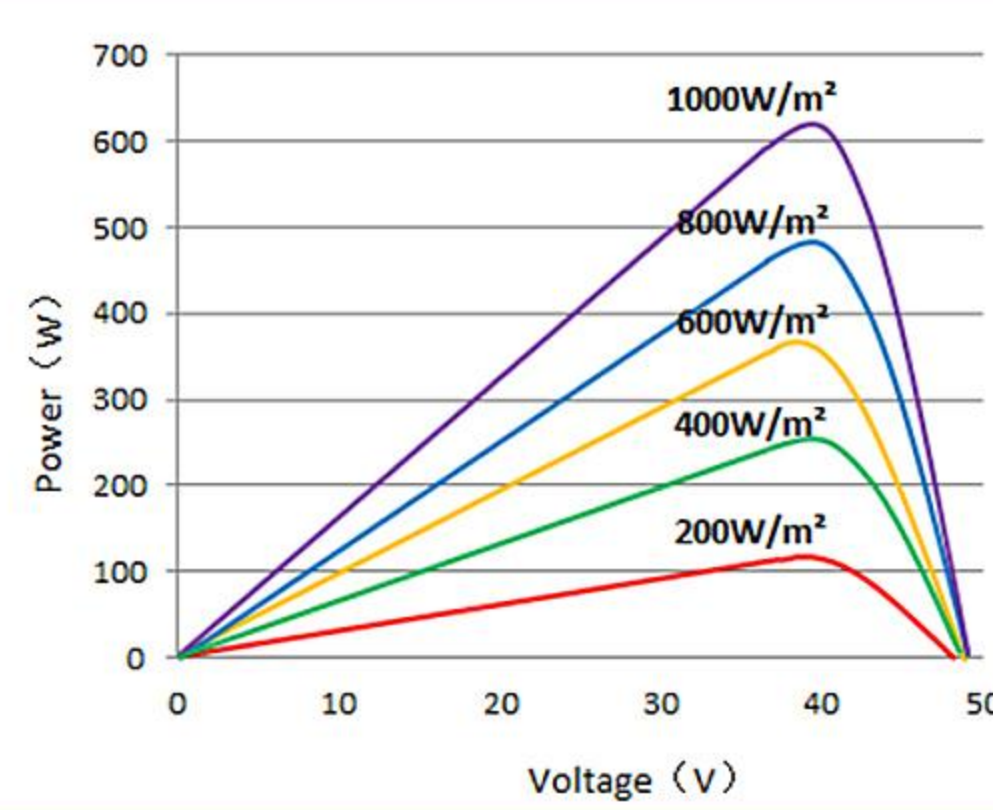
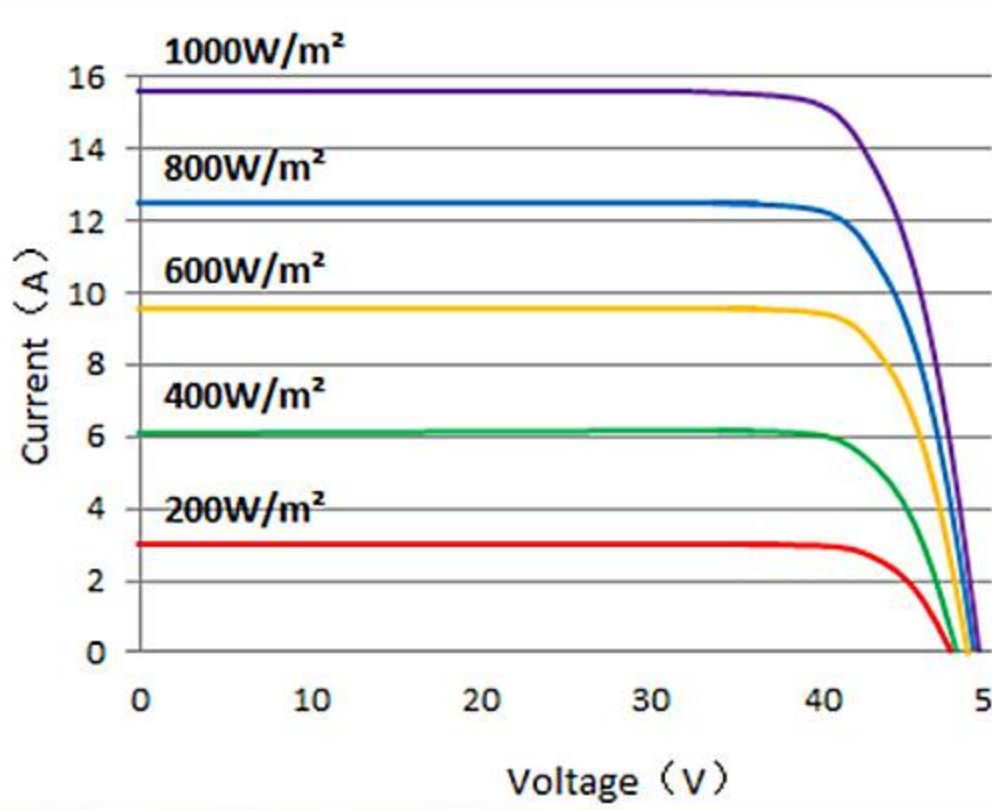
Temperature Cycling Range: -40℃ ~ +85℃

Norminal Module Operating Temperature: 45±2 ℃

Temperature Coefficient of Isc: 0.042%/℃

Temperature Coefficient of Voc : -0.257%/℃

Temperature Coefficient of Pmax : -0.330%/℃



Packaging Configuration

Guarantee

Modules Per Pallet: 36pcs

Modules Per 40 ' HQ: 720pcs

12-year warranty on materials & workmanship

30-year linear power output warranty