

## MP580W#PVBN



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



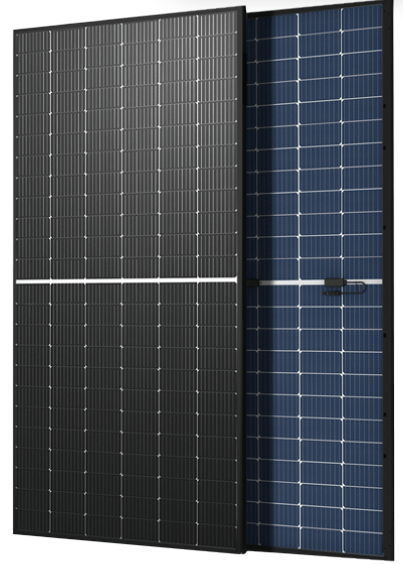
### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



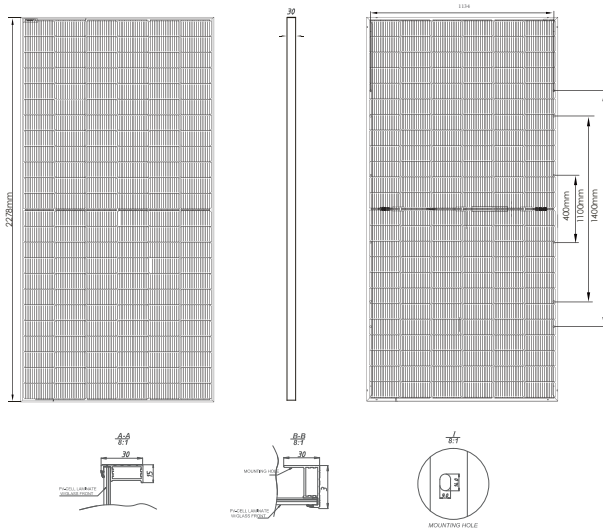
### Lower LCOE

Higher bifaciality, higher power output and lower BOS cost



## MECHANICAL SPECIFICATIONS

|                          |  |
|--------------------------|--|
| Cell Type                | N type Mono-crystalline                    |
| Cell Dimensions          | 182*182mm                                  |
| Cell Arrangement         | 144 (6*24)                                 |
| Weight                   | 32KG                                       |
| Module Dimensions        | 2278*1134*30mm                             |
| Cable Length             | Portrait 300mm/Landscape 1200mm/Customized |
| Cable Cross Section Size | TUV: 4mm <sup>2</sup> /UL: 12AWG           |
| Front Glass              | 2.0mm, Anti-Reflection Coating             |
| Back Glass               | 2.0mm, Heat Strengthened Glass             |
| No. of Bypass Diodes     | 3/6  |
| Packing Configuration    | 36pcs/pallet, 720pcs/40hq                  |
| Frame                    | Anodized Aluminium Alloy                   |
| Junction Box             | IP68                                       |



LEAVE POWER FOR MEDAL POWER

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## ELECTRICAL SPECIFICATIONS

| Module Type                   | MP580W#PVBN |       |
|-------------------------------|-------------|-------|
| Testing Condition             | STC         | NMOT  |
| Rated output (Pmp/Wp)         | 580         | 436   |
| Maximum Power Voltage(Vmpp/V) | 42.6        | 39.9  |
| Maximum Power Current(Imp/A)  | 13.62       | 10.93 |
| Open Circuit Voltage(Voc/V)   | 51.5        | 48.9  |
| Short Circuit Current(Isc/A)  | 14.37       | 11.60 |
| Module efficiency(%)          | 22.5%       |       |
| Power Tolerance (W)           | 0~+5        |       |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

## MAXIMUM RATINGS

|                        |  |
|------------------------|--|
| Maximum System Voltage | 1000V/1500V DC (IEC)                       |
| Operating Temperature  | -40°C ~ +85°C                              |
| Maximum Series Fuse    | 30A  |
| Static Loading         | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground | ≤0.1Ω                                      |
| Safety Class           | II   |
| Resistance             | ≥100MΩ                                     |

## TEMPERATURE CHARACTERISTICS

|                                |           |
|--------------------------------|-----------|
| NMOT Temperature               | 45°C±2 °C |
| Temperature Coefficient (Pmax) | -0.30%/°C |
| Temperature Coefficient (Voc)  | -0.25%/°C |
| Temperature Coefficient (Isc)  | 0.046%/°C |

## CURVE & TEMPERATURE DEPENDENCE

