



## 340W MBB Bifacial Mono PERC Half-cell Double Glass Module JAM60D10 320-340/MB Series

### Introduction

Assembled with MBB bifacial PERCIUM cells and half-cell configuration, these double glass modules have the capability of converting the incident light from the rear side together with the front side into electricity, providing higher output power, lower temperature coefficient, less shading loss, as well as enhanced tolerance for mechanical loading.



Higher output power



More reliable, more stable power generation



Less shading effect

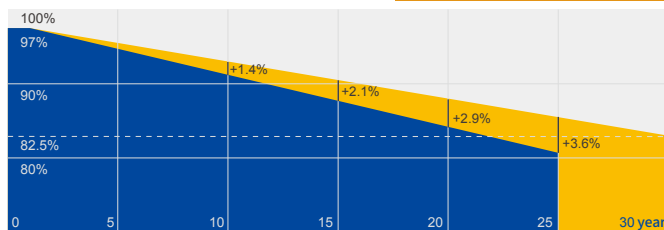


Lower temperature coefficient

### Superior Warranty

- 12-year product warranty
- 30-year linear power output warranty

0.5% Annual Degradation Over 30 years



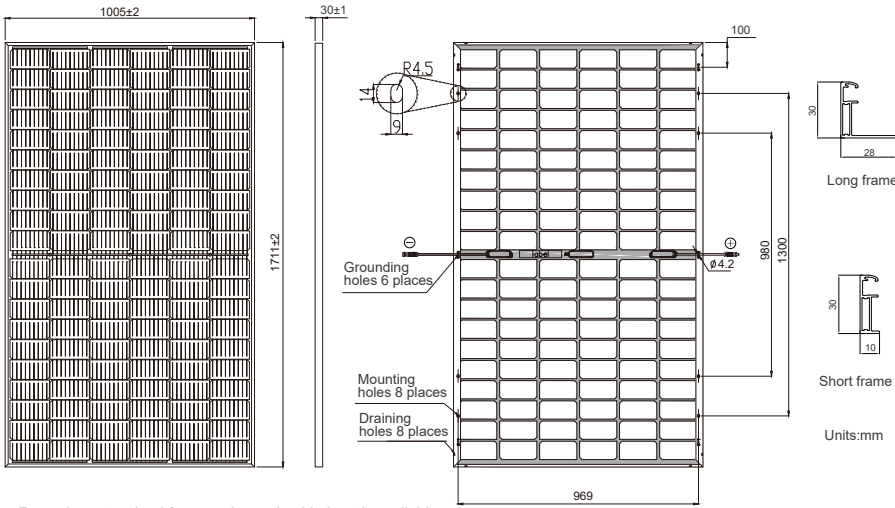
■ Additional Value From 30-Year Warranty ■ JA Standard

### Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

|                                    |  |
|------------------------------------|--|
| Cell                               | Mono   |
| Weight                             | 26.0kg±3%  |
| Dimensions                         | 1711±2mm×1005±2mm×30±1mm                                     |
| Cable Cross Section Size           | 4mm <sup>2</sup>   |
| No. of cells                       | 120(6×20)  |
| Junction Box                       | IP68, 3 diodes   |
| Connector                          | QC 4.10-35   |
| Cable Length (Including Connector) | Portrait:300mm(+)/400mm(-);<br>Landscape:1000mm(+)/1000mm(-) |
| Packaging Configuration            | 34 Per Pallet  |

ELECTRICAL PARAMETERS AT STC

| TYPE   | JAM60D10<br>-320/MB   | JAM60D10<br>-325/MB | JAM60D10<br>-330/MB | JAM60D10<br>-335/MB | JAM60D10<br>-340/MB |
|--|---|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(Pmax) [W]                      | 320   | 325                 | 330                 | 335                 | 340                 |
| Open Circuit Voltage(Voc) [V]                      | 39.85   | 40.15               | 40.48               | 40.78               | 41.09               |
| Maximum Power Voltage(Vmp) [V]                     | 33.20   | 33.54               | 33.89               | 34.22               | 34.52               |
| Short Circuit Current(Isc) [A]                     | 10.25   | 10.30               | 10.35               | 10.40               | 10.46               |
| Maximum Power Current(Imp) [A]                     | 9.64  | 9.69                | 9.74                | 9.79                | 9.85                |
| Module Efficiency [%]                              | 18.6  | 18.9                | 19.2                | 19.5                | 19.8                |
| Power Tolerance                                    | 0~+5W   |                     |                     |                     |                     |
| Temperature Coefficient of Isc(α <sub>Isc</sub> )  | +0.044%/°C  |                     |                     |                     |                     |
| Temperature Coefficient of Voc(β <sub>Voc</sub> )  | -0.272%/°C  |                     |                     |                     |                     |
| Temperature Coefficient of Pmax(γ <sub>Pmp</sub> ) | -0.354%/°C  |                     |                     |                     |                     |
| STC  | Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G |                     |                     |                     |                     |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. The efficiency of the bifacial PERC glass-glass modules at 200W/m<sup>2</sup> to that at 1000W/m<sup>2</sup> is 98%.

\*Bifaciality=Pmax,rear/Rated Pmax,front

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN(REFERENCE TO 325W FRONT)

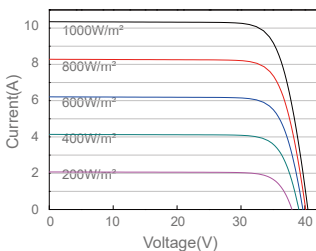
|                                | 5%    | 10%   | 15%   | 20%   | 25%   |
|--------------------------------|-------|-------|-------|-------|-------|
| Backside Power Gain            | 5%    | 10%   | 15%   | 20%   | 25%   |
| Rated Max Power(Pmax) [W]      | 341   | 358   | 374   | 390   | 406   |
| Open Circuit Voltage(Voc) [V]  | 40.16 | 40.17 | 40.18 | 40.19 | 40.20 |
| Max Power Voltage(Vmp) [V]     | 33.55 | 33.56 | 33.56 | 33.57 | 33.58 |
| Short Circuit Current(Isc) [A] | 10.82 | 11.33 | 11.85 | 12.36 | 12.88 |
| Max Power Current(Imp) [A]     | 10.17 | 10.65 | 11.14 | 11.62 | 12.10 |

OPERATING CONDITIONS

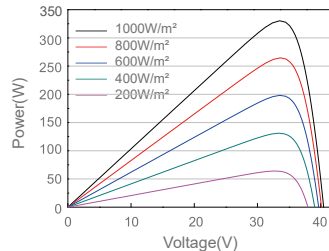
|   |                  |
|---|------------------|
| Maximum System Voltage                                | 1500V DC(IEC)    |
| Operating Temperature                                 | -40°C~+85°C      |
| Maximum Series Fuse                                   | 20A              |
| Maximum Static Load,Front<br>Maximum Static Load,Back | 5400Pa<br>2400Pa |
| NOCT  | 45±2°C           |
| Bifaciality*  | 70%±5%           |

CHARACTERISTICS

Current-Voltage Curve JAM60D10-330/MB



Power-Voltage Curve JAM60D10-330/MB



Current-Voltage Curve JAM60D10-330/MB

