

## DEEP BLUE 4.0

**Mono**

625W n-type Bifacial Double Glass  
High Efficiency Mono Module  
JAM78D40 600-625/MB Series

### Introduction

Power by the latest SMBB n-type solar cell, half-cell configuration, these modules have higher output power, lower LID, better weak illumination response, and better temperature coefficient.



Higher power generation  
better LCOE



n-type with very Lower LID



Better weak illumination response



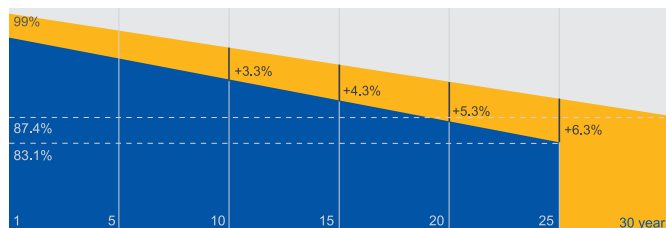
Better Temperature Coefficient

### Superior Warranty

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

1% 1st-year Degradation

0.4% Annual Degradation  
Over 30 years



■ n-type Bifacial Double Glass Module Linear Performance Warranty

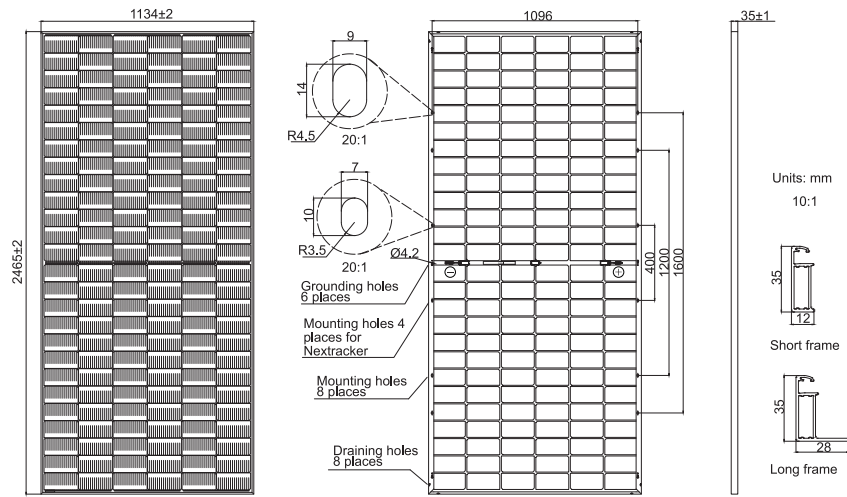
■ Standard Module Linear Performance Warranty

### Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



**MECHANICAL DIAGRAMS**



Remark: customized frame color and cable length available upon request

**SPECIFICATIONS**

|                                    |   |
|------------------------------------|---|
| Cell                               | Mono-16BB   |
| Weight                             | 34.6kg  |
| Dimensions                         | 2465±2mm×1134±2mm×35±1mm  |
| Cable Cross Section Size           | 4mm <sup>2</sup> (IEC), 12 AWG(UL)  |
| No. of cells                       | 156(6×26)   |
| Junction Box                       | IP68, 3 diodes  |
| Connector                          | QC 4.10-351/ MC4-EVO2A  |
| Cable Length (Including Connector) | Portrait: 200mm(+)/300mm(-);<br>800mm(+)/800mm(-)(Leapfrog)<br>Landscape: 1500mm(+)/1500mm(-) |
| Front Glass/Back Glass             | 2.0mm/2.0mm   |
| Packaging Configuration            | 31pcs/Pallet,<br>496pcs/40HQ Container  |

**ELECTRICAL PARAMETERS AT STC**

| TYPE  | JAM78D40<br>-600/MB   | JAM78D40<br>-605/MB | JAM78D40<br>-610/MB | JAM78D40<br>-615/MB | JAM78D40<br>-620/MB | JAM78D40<br>-625/MB |
|---|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(Pmax) [W]                     | 600   | 605                 | 610                 | 615                 | 620                 | 625                 |
| Open Circuit Voltage(Voc) [V]                     | 54.75   | 54.90               | 55.05               | 55.20               | 55.34               | 55.49               |
| Maximum Power Voltage(Vmp) [V]                    | 45.67   | 45.80               | 45.94               | 46.07               | 46.20               | 46.37               |
| Short Circuit Current(Isc) [A]                    | 14.02   | 14.09               | 14.16               | 14.23               | 14.30               | 14.36               |
| Maximum Power Current(Imp) [A]                    | 13.14   | 13.21               | 13.28               | 13.35               | 13.42               | 13.48               |
| Module Efficiency [%]                             | 21.5  | 21.6                | 21.8                | 22.0                | 22.2                | 22.4                |
| Power Tolerance                                   | 0~+5W   |                     |                     |                     |                     |                     |
| Temperature Coefficient of Isc( $\alpha_{Isc}$ )  | +0.046%/°C  |                     |                     |                     |                     |                     |
| Temperature Coefficient of Voc( $\beta_{Voc}$ )   | -0.260%/°C  |                     |                     |                     |                     |                     |
| Temperature Coefficient of Pmax( $\gamma_{Pmp}$ ) | -0.300%/°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.

**ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO**

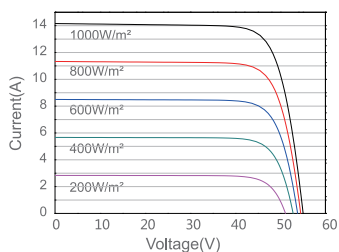
**OPERATING CONDITIONS**

| TYPE                           | JAM78D40<br>-600/MB | JAM78D40<br>-605/MB | JAM78D40<br>-610/MB | JAM78D40<br>-615/MB | JAM78D40<br>-620/MB | JAM78D40<br>-625/MB | Maximum System Voltage     | 1500V DC                        |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------------|---------------------------------|
| Rated Max Power(Pmax) [W]      | 648                 | 653                 | 659                 | 664                 | 670                 | 675                 | Operating Temperature      | -40°C~+85°C                     |
| Open Circuit Voltage(Voc) [V]  | 54.78               | 54.93               | 55.08               | 55.23               | 55.37               | 55.51               | Maximum Series Fuse Rating | 30A                             |
| Max Power Voltage(Vmp) [V]     | 45.66               | 45.80               | 45.93               | 46.07               | 46.20               | 46.36               | Maximum Static Load,Front* | 5400Pa(112 lb/ft <sup>2</sup> ) |
| Short Circuit Current(Isc) [A] | 15.14               | 15.22               | 15.29               | 15.37               | 15.44               | 15.51               | Maximum Static Load,Back*  | 2400Pa(50 lb/ft <sup>2</sup> )  |
| Max Power Current(Imp) [A]     | 14.19               | 14.27               | 14.34               | 14.42               | 14.49               | 14.56               | NOCT                       | 45±2°C                          |
| Irradiation Ratio (rear/front) | 10%                 |                     |                     |                     |                     |                     | Bifaciality**              | 80%±10%                         |
|                                |                     |                     |                     |                     |                     |                     | Fire Performance           | UL Type 29                      |

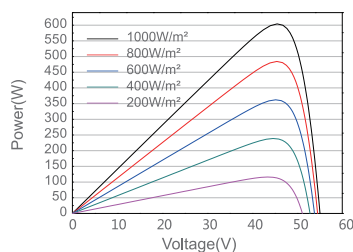
\*For Nexttracker installations, maximum static load please take compatibility approve letter between JA Solar and Nexttracker for reference.  
\*\*Bifaciality=Pmax,rear/Rated Pmax,front

**CHARACTERISTICS**

Current-Voltage Curve JAM78D40-610/MB



Power-Voltage Curve JAM78D40-610/MB



Current-Voltage Curve JAM78D40-610/MB

