

Harvest the Sunshine

510W

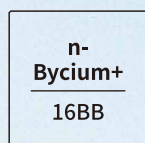


JA SOLAR

# JAM60D40 LB

Black Frame  
n-type Double Glass Bifacial Modules

## Premium Cells



MBB Half-Cell  
Technology

26%



Cell Conversion  
Efficiency

## Premium Modules



Higher power  
generation better LCOE



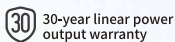
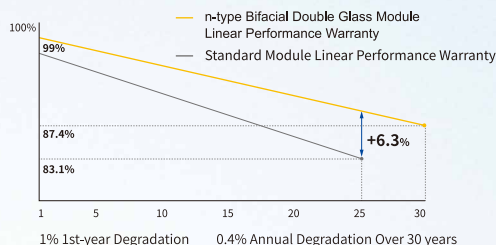
n-type with very  
Lower LID



Better Temperature  
Coefficient



Better low irradiance  
response



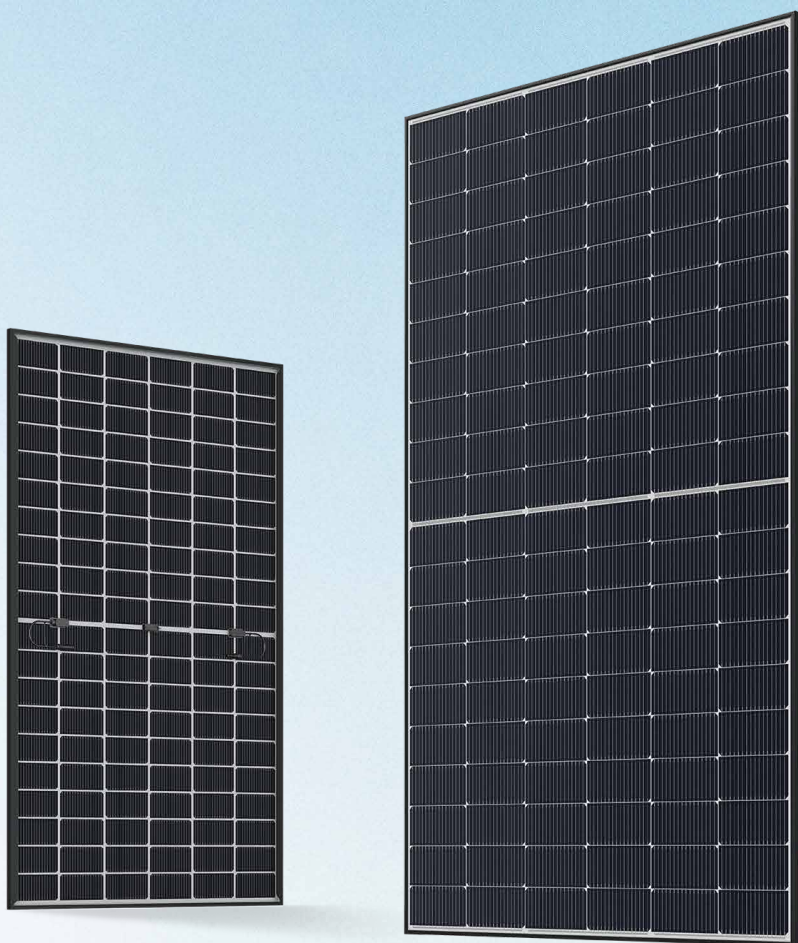
\*Subject to the terms and conditions contained in the Limited Warranty Statement.  
Extended Product Warranty only applies to rooftops PV systems in certain regions.

## Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 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

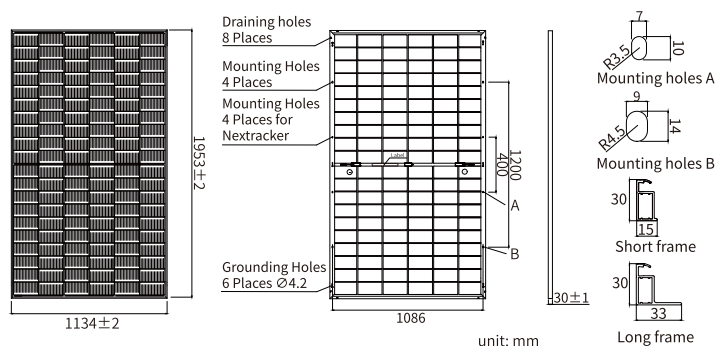


DEEP BLUE 4.0 Pro



# JAM60D40 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| Cell                                  | Mono                                                          |
| Weight                                | 27.3kg                                                        |
| Dimensions                            | 1953±2mm × 1134±2mm × 30±1mm                                  |
| Cable Cross Section Size              | 4mm <sup>2</sup> (IEC), 12 AWG(UL)                            |
| No. of cells                          | 120(6 × 20)                                                   |
| Junction Box                          | IP68, 3diodes                                                 |
| Connector                             | MC4-EVO2A/QC4.10-351                                          |
| Cable Length<br>(Including Connector) | Portrait: 300mm(+)/400mm(-)<br>Landscape: 1200mm(+)/1200mm(-) |
| Front Glass/Back Glass                | 2.0mm/2.0mm                                                   |
| Packaging Configuration               | 36pcs/Pallet, 864pcs/40HQ Container                           |

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

| TYPE                                                            | JAM60D40<br>-485/LB                                             | JAM60D40<br>-490/LB | JAM60D40<br>-495/LB | JAM60D40<br>-500/LB | JAM60D40<br>-505/LB | JAM60D40<br>-510/LB |
|-----------------------------------------------------------------|-----------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(P <sub>max</sub> ) [W]                      | 485                                                             | 490                 | 495                 | 500                 | 505                 | 510                 |
| Open Circuit Voltage (V <sub>oc</sub> ) [V]                     | 43.25                                                           | 43.45               | 43.65               | 43.85               | 44.05               | 44.25               |
| Maximum Power Voltage(V <sub>mp</sub> ) [V]                     | 36.28                                                           | 36.49               | 36.70               | 36.91               | 37.11               | 37.31               |
| Short Circuit Current(I <sub>sc</sub> ) [A]                     | 14.24                                                           | 14.30               | 14.36               | 14.42               | 14.48               | 14.54               |
| Maximum Power Current(I <sub>mp</sub> ) [A]                     | 13.37                                                           | 13.43               | 13.49               | 13.55               | 13.61               | 13.67               |
| Module Efficiency [%]                                           | 21.9                                                            | 22.1                | 22.4                | 22.6                | 22.8                | 23.0                |
| Power Tolerance                                                 | 0~+3%                                                           |                     |                     |                     |                     |                     |
| Temperature Coefficient of I <sub>sc</sub> (α <sub>Isc</sub> )  | +0.045%/°C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of V <sub>oc</sub> (β <sub>Voc</sub> )  | -0.250%/°C                                                      |                     |                     |                     |                     |                     |
| Temperature Coefficient of P <sub>max</sub> (γ <sub>Pmp</sub> ) | -0.290%/°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.

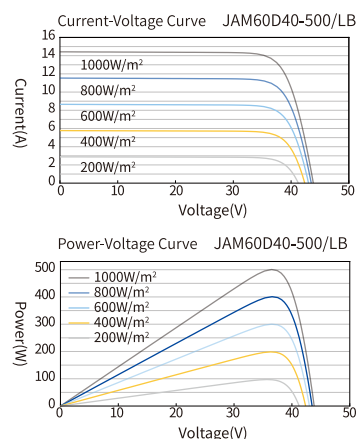
Power Measurement Tolerance : P<sub>max</sub> ±3%

## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

| TYPE                                        | JAM60D40<br>-485/LB | JAM60D40<br>-490/LB | JAM60D40<br>-495/LB | JAM60D40<br>-500/LB | JAM60D40<br>-505/LB | JAM60D40<br>-510/LB |
|---------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(P <sub>max</sub> ) [W]      | 524                 | 529                 | 535                 | 540                 | 545                 | 551                 |
| Open Circuit Voltage(V <sub>oc</sub> ) [V]  | 43.25               | 43.45               | 43.65               | 43.85               | 44.05               | 44.25               |
| Max Power Voltage(V <sub>mp</sub> ) [V]     | 36.28               | 36.49               | 36.70               | 36.91               | 37.11               | 37.31               |
| Short Circuit Current(I <sub>sc</sub> ) [A] | 15.38               | 15.44               | 15.51               | 15.57               | 15.64               | 15.70               |
| Max Power Current(I <sub>mp</sub> ) [A]     | 14.44               | 14.50               | 14.57               | 14.63               | 14.70               | 14.76               |
| Irradiation Ratio (rear/front)              | 10%                 |                     |                     |                     |                     |                     |

\* Bifaciality=P<sub>max, rear</sub>/Rated P<sub>max, front</sub>

## CHARACTERISTICS



## OPERATING CONDITIONS

|                            |                                 |
|----------------------------|---------------------------------|
| Maximum System Voltage     | 1500V DC                        |
| Operating Temperature      | -40°C~+85°C                     |
| Maximum Series Fuse Rating | 30A                             |
| Maximum Static Load, Front | 5400Pa(112 lb/ft <sup>2</sup> ) |
| Maximum Static Load, Back  | 2400Pa(50 lb/ft <sup>2</sup> )  |
| NOCT                       | 45±2°C                          |
| Bifaciality*               | 80%±10%                         |
| Safety Class               | Class II                        |
| Fire Performance           | UL Type 29/Class C              |