

# Harvest the Sunshine

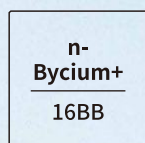
JA SOLAR

# 540W



## JAM60D42 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



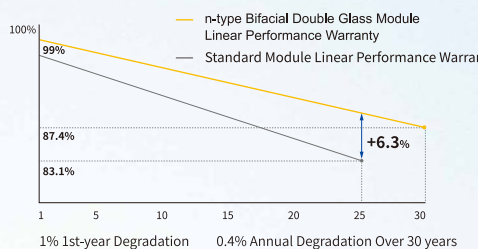
n-type with very  
Lower LID



Better Temperature  
Coefficient



Better low irradiance  
response



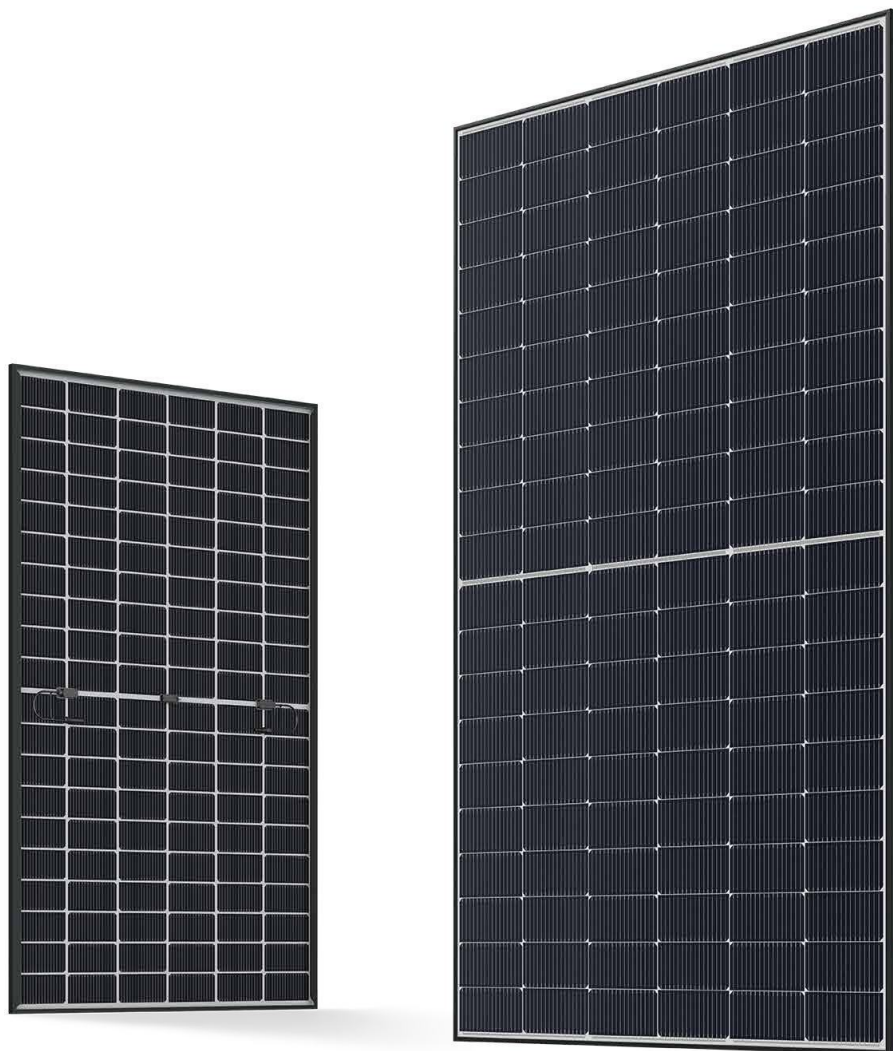
25-year product  
warranty



30-year linear power  
output warranty

### Comprehensive Certificates

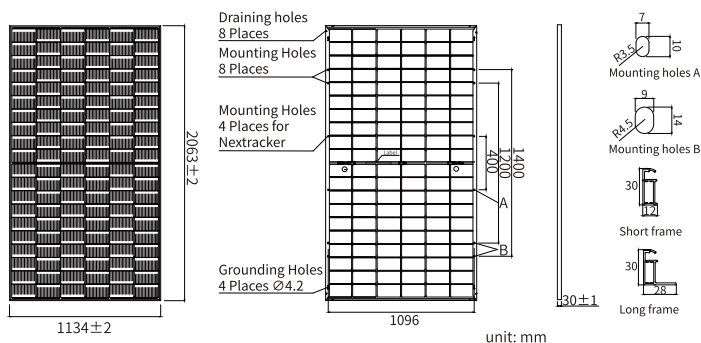
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

# JAM60D42 LB

n-type Double Glass Bifacial Modules



## MECHANICAL PARAMETERS

|                                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| Cell                                  | Mono                                                          |
| Weight                                | 28.8kg                                                        |
| Dimensions                            | 2063±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                             | QC 4.10-351/ MC4-EVO2A                                        |
| Cable Length<br>(Including Connector) | Portrait: 400mm(+)/200mm(-)<br>Landscape: 1200mm(+)/1200mm(-) |
| Front Glass/Back Glass                | 2.0mm/2.0mm                                                   |
| Packaging Configuration               | 36pcs/Pallet, 792pcs/40HQ Container                           |

Remark: customized frame color and cable length available upon request

## ELECTRICAL PARAMETERS AT STC

| TYPE                                                            | JAM60D42<br>-515/LB                                             | JAM60D42<br>-520/LB | JAM60D42<br>-525/LB | JAM60D42<br>-530/LB | JAM60D42<br>-535/LB | JAM60D42<br>-540/LB |
|-----------------------------------------------------------------|-----------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(P <sub>max</sub> ) [W]                      | 515                                                             | 520                 | 525                 | 530                 | 535                 | 540                 |
| Open Circuit Voltage (V <sub>oc</sub> ) [V]                     | 43.33                                                           | 43.53               | 43.73               | 43.93               | 44.13               | 44.33               |
| Maximum Power Voltage(V <sub>mp</sub> ) [V]                     | 36.15                                                           | 36.37               | 36.59               | 36.81               | 37.03               | 37.25               |
| Short Circuit Current(I <sub>sc</sub> ) [A]                     | 15.11                                                           | 15.16               | 15.21               | 15.26               | 15.31               | 15.36               |
| Maximum Power Current(I <sub>mp</sub> ) [A]                     | 14.25                                                           | 14.30               | 14.35               | 14.40               | 14.45               | 14.50               |
| Module Efficiency [%]                                           | 22.0                                                            | 22.2                | 22.4                | 22.7                | 22.9                | 23.1                |
| 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 |                     |                     |                     |                     |                     |

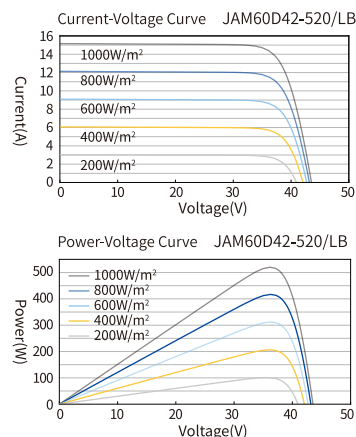
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

| TYPE                                        | JAM60D42<br>-515/LB | JAM60D42<br>-520/LB | JAM60D42<br>-525/LB | JAM60D42<br>-530/LB | JAM60D42<br>-535/LB | JAM60D42<br>-540/LB |
|---------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(P <sub>max</sub> ) [W]      | 556                 | 562                 | 567                 | 572                 | 578                 | 583                 |
| Open Circuit Voltage(V <sub>oc</sub> ) [V]  | 43.33               | 43.53               | 43.73               | 43.93               | 44.13               | 44.33               |
| Max Power Voltage(V <sub>mp</sub> ) [V]     | 36.15               | 36.37               | 36.59               | 36.81               | 37.03               | 37.25               |
| Short Circuit Current(I <sub>sc</sub> ) [A] | 16.32               | 16.37               | 16.43               | 16.48               | 16.53               | 16.59               |
| Max Power Current(I <sub>mp</sub> ) [A]     | 15.39               | 15.44               | 15.50               | 15.55               | 15.61               | 15.66               |
| Irradiation Ratio (rear/front)              | 10%                 |                     |                     |                     |                     |                     |

\* For NextTracker installations, maximum static load please take compatibility approve letter between JA Solar and NextTracker for reference.

## 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%±5%                          |
| Safety Class                | Class II                        |
| Fire Performance            | UL Type 29/Class C              |