

# Harvest the Sunshine

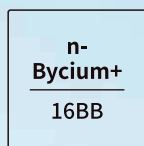
# JA SOLAR

# 540W



## JAM60D42 LB n-type Double Glass Bifacial Modules

### Premium Cells

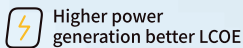


MBB Half-Cell Technology

**26%**  
Up To

Cell Conversion Efficiency

### Premium Modules



Higher power generation better LCOE



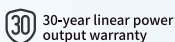
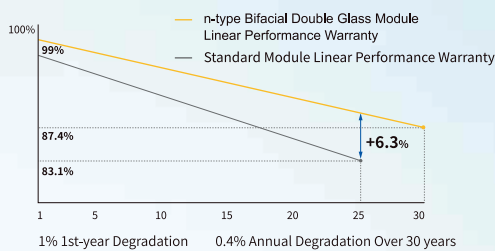
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



### 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



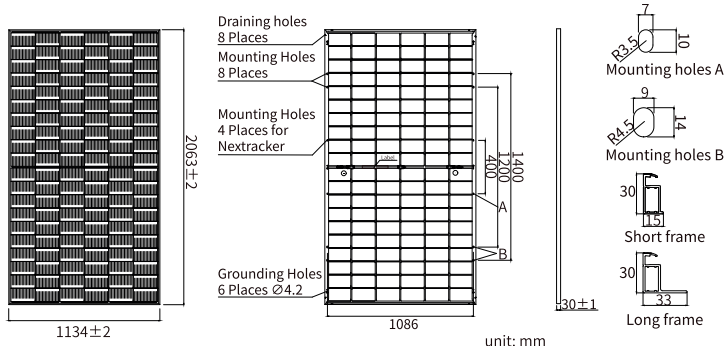
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### MECHANICAL PARAMETERS

|                                    |   |
|------------------------------------|---|
| 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 (Including Connector) | Portrait: 300mm(+)/400mm(-)<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(Pmax) [W]                      | 515   | 520                 | 525                 | 530                 | 535                 | 540                 |
| Open Circuit Voltage (Voc) [V]                     | 43.33   | 43.53               | 43.73               | 43.93               | 44.13               | 44.33               |
| Maximum Power Voltage(Vmp) [V]                     | 36.15   | 36.37               | 36.59               | 36.81               | 37.03               | 37.25               |
| Short Circuit Current(Isc) [A]                     | 15.11   | 15.16               | 15.21               | 15.26               | 15.31               | 15.36               |
| Maximum Power Current(Imp) [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 Isc(α <sub>Isc</sub> )  | +0.045%/°C  |                     |                     |                     |                     |                     |
| Temperature Coefficient of Voc(β <sub>Voc</sub> )  | -0.250%/°C  |                     |                     |                     |                     |                     |
| Temperature Coefficient of Pmax(γ <sub>Pmp</sub> ) | -0.290%/°C  |                     |                     |                     |                     |                     |
| STC  | Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G |                     |                     |                     |                     |                     |

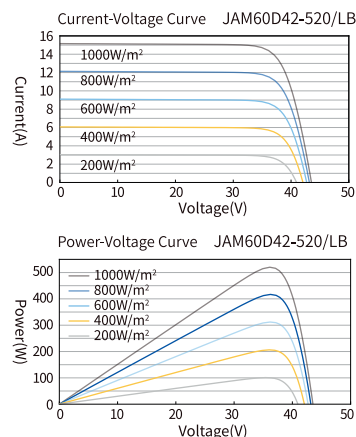
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

### 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(Pmax) [W]      | 556                 | 562                 | 567                 | 572                 | 578                 | 583                 |
| Open Circuit Voltage(Voc) [V]  | 43.33               | 43.53               | 43.73               | 43.93               | 44.13               | 44.33               |
| Max Power Voltage(Vmp) [V]     | 36.15               | 36.37               | 36.59               | 36.81               | 37.03               | 37.25               |
| Short Circuit Current(Isc) [A] | 16.32               | 16.37               | 16.43               | 16.48               | 16.53               | 16.59               |
| Max Power Current(Imp) [A]     | 15.39               | 15.44               | 15.50               | 15.55               | 15.61               | 15.66               |
| Irradiation Ratio (rear/front) | 10%                 |                     |                     |                     |                     |                     |

\* For Nextacker installations, maximum static load please take compatibility approve letter between JA Solar and Nextacker 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              |