

**JA SOLAR**

**DEEP BLUE 4.0** *Pro*

Version No. : Global-EN-20230621A

**455W** **LB**  
Series



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

**n-type Bifacial Double Glass  
High Efficiency Mono Module  
JAM54D41 LB**

**430-455**

### 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

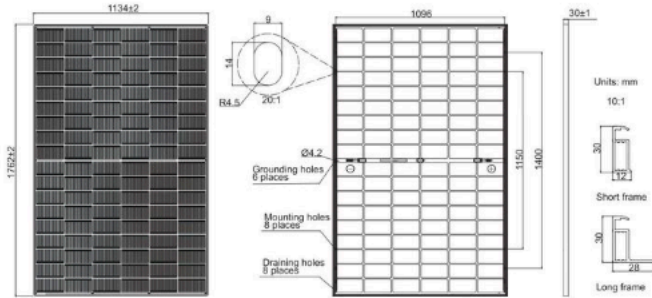




# 455W

## 430-455 LB Series

JAM54D41



Remark: customized frame color and cable length available upon request

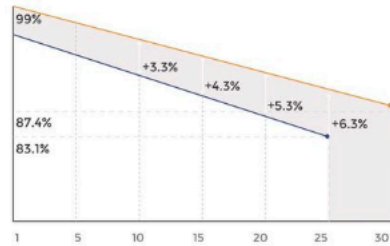
|                                    |   |
|------------------------------------|---|
| Cell                               | Mono-16BB   |
| Weight                             | 22kg  |
| Dimensions                         | 1762±2mm×1134±2mm×30±1mm  |
| Cable Cross Section Size           | 4mm <sup>2</sup> (IEC), 12 AWG(UL)  |
| No. of cells                       | 108(6×18)   |
| Junction Box                       | IP68, 3 diodes  |
| Connector                          | QC 4.10-35I/ MC4-EVO2A  |
| Cable Length (Including Connector) | Portrait: 300mm(+)/400mm(-);<br>800mm(+)/800mm(-)(Leapfrog)<br>Landscape: 1200mm(+)/1200mm(-) |
| Front Glass/Back Glass             | 1.6mm/1.6mm   |
| Packaging Configuration            | 36pcs/Pallet, 936pcs/40HQ Container   |

### ELECTRICAL PARAMETERS AT STC

| TYPE   | JAM54D41<br>-430/LB   | JAM54D41<br>-435/LB | JAM54D41<br>-440/LB | JAM54D41<br>-445/LB | JAM54D41<br>-450/LB | JAM54D41<br>-455/LB |
|--|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(Pmax) [W]                      | 430   | 435                 | 440                 | 445                 | 450                 | 455                 |
| Open Circuit Voltage(Voc) [V]                      | 38.50   | 38.70               | 38.90               | 39.10               | 39.30               | 39.50               |
| Maximum Power Voltage(Vmp) [V]                     | 32.12   | 32.29               | 32.47               | 32.65               | 32.82               | 33.00               |
| Short Circuit Current(Isc) [A]                     | 14.14   | 14.23               | 14.31               | 14.40               | 14.48               | 14.56               |
| Maximum Power Current(Imp) [A]                     | 13.39   | 13.47               | 13.55               | 13.63               | 13.71               | 13.79               |
| Module Efficiency [%]                              | 21.5  | 21.8                | 22.0                | 22.3                | 22.5                | 22.8                |
| Power Tolerance                                    | 0~+5W   |                     |                     |                     |                     |                     |
| Temperature Coefficient of Isc(α <sub>Isc</sub> )  | +0.046%/C   |                     |                     |                     |                     |                     |
| Temperature Coefficient of Voc(β <sub>Voc</sub> )  | -0.260%/C   |                     |                     |                     |                     |                     |
| Temperature Coefficient of Pmax(γ <sub>Pmp</sub> ) | -0.300%/C   |                     |                     |                     |                     |                     |
| STC  | Irradiance 1000W/m <sup>2</sup> , cell temperature 25 C, AM1.5G |                     |                     |                     |                     |                     |

### Superior 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

\*Subject to the terms and conditions contained in the Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on residential rooftops in certain regions.

### ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

| TYPE                           | JAM54D41<br>-430/LB | JAM54D41<br>-435/LB | JAM54D41<br>-440/LB | JAM54D41<br>-445/LB | JAM54D41<br>-450/LB | JAM54D41<br>-455/LB |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(Pmax) [W]      | 464                 | 470                 | 475                 | 481                 | 486                 | 491                 |
| Open Circuit Voltage(Voc) [V]  | 38.50               | 38.70               | 38.90               | 39.10               | 39.30               | 39.50               |
| Max Power Voltage(Vmp) [V]     | 32.11               | 32.29               | 32.47               | 32.65               | 32.82               | 32.99               |
| Short Circuit Current(Isc) [A] | 15.27               | 15.36               | 15.46               | 15.55               | 15.64               | 15.73               |
| Max Power Current(Imp) [A]     | 14.46               | 14.55               | 14.63               | 14.72               | 14.81               | 14.89               |
| Irradiation Ratio (rear/front) | 10%                 |                     |                     |                     |                     |                     |

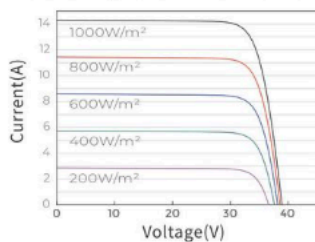
\*Bifaciality=Pmax,rear/Rated Pmax,front

### OPERATING CONDITIONS

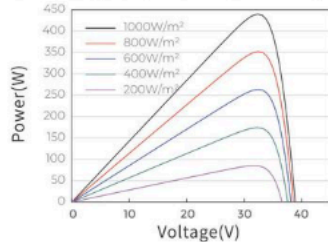
|                            |                                 |
|----------------------------|---------------------------------|
| Maximum System Voltage     | 1500V DC                        |
| Operating Temperature      | -40 C ~ +85 C                   |
| Maximum Series Fuse Rating | 30A                             |
| 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%                         |
| Fire Performance           | UL Type 3B                      |

### CHARACTERISTICS

Current-Voltage Curve JAM54D41-440/LB



Power-Voltage Curve JAM54D41-440/LB



Current-Voltage Curve JAM54D41-440/LB

