**DEEP BLUE 3.0**

**Mono**

505W MBB Half-cell Module
JAM66S30 480-505/MR/1000V Series

**Introduction**

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

- **Higher output power**
- **Lower LCOE**
- **Less shading and lower resistive loss**
- **Better mechanical loading tolerance**

**Superior Warranty**

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

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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.
Shanghai JA Solar Technology Co., Ltd.
MECHANICAL DIAGRAMS

SPECIFICATIONS

- Cell: Mono
- Weight: 26.3kg±3%
- Dimensions: 2094±2mm×1134±2mm×35±1mm
- Cable Cross Section Size: 4mm² (IEC) . 12 AWG(UL)
- No. of cells: 132(6×22)
- Junction Box: IP68, 3 diodes
- Connector: Genuine MC4 QC4.10
- Cable Length (Including Connector): Portrait: 300mm(+400mm-); Landscape: 1200mm(+)/1200mm(-)
- Country of Manufacturer: China/Vietnam

**ELECTRICAL PARAMETERS AT STC**

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<tbody>
<tr>
<td>Rated Maximum Power($P_{max}$) [W]</td>
<td>480</td>
<td>485</td>
<td>490</td>
<td>495</td>
<td>500</td>
<td>505</td>
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<tr>
<td>Open Circuit Voltage($V_{oc}$) [V]</td>
<td>45.07</td>
<td>45.20</td>
<td>45.33</td>
<td>45.46</td>
<td>45.59</td>
<td>45.72</td>
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<tr>
<td>Maximum Power Voltage($V_{mp}$) [V]</td>
<td>37.62</td>
<td>37.81</td>
<td>37.99</td>
<td>38.17</td>
<td>38.35</td>
<td>38.53</td>
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<tr>
<td>Short Circuit Current($I_{sc}$) [A]</td>
<td>13.65</td>
<td>13.72</td>
<td>13.79</td>
<td>13.86</td>
<td>13.93</td>
<td>14.00</td>
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<tr>
<td>Module Efficiency [%]</td>
<td>20.2</td>
<td>20.4</td>
<td>20.6</td>
<td>20.8</td>
<td>21.1</td>
<td>21.3</td>
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<tr>
<td>Power Tolerance</td>
<td>0±5W</td>
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<tr>
<td>Temperature Coefficient of $I_{sc}$(α$<em>{I</em>{sc}}$)</td>
<td>+0.045%°C</td>
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<tr>
<td>Temperature Coefficient of $V_{oc}$(β$<em>{V</em>{oc}}$)</td>
<td>-0.275%°C</td>
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<tr>
<td>Temperature Coefficient of $P_{max}$(γ$<em>{P</em>{mp}}$)</td>
<td>-0.350%°C</td>
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**STC**
- Irradiance 1000W/m², cell temperature 25°C, AM1.5G

**OPERATING CONDITIONS**
- Maximum System Voltage: 1000V DC(IEC)
- Operating Temperature: -40°C~+85°C
- Maximum Series Fuse Rating: 25A
- Maximum Static Load Front*: 3600Pa, 1.5
- Maximum Static Load Back*: 1600Pa, 1.5
- NOCT: 45±2°C
- Safety Class: Class II
- Fire Performance: UL Type 1

**CHARACTERISTICS**

- Current-Voltage Curve: JAM66S30-495/MR/1000V
- Power-Voltage Curve: JAM66S30-495/MR/1000V
- Current-Voltage Curve: JAM66S30-495/MR/1000V

Premium Cells, Premium Modules