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

![Graph of power output degradation over 25 years]

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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Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.
**MECHANICAL DIAGRAMS**

**SPECIFICATIONS**

- **Cell**: Mono
- **Weight**: 31.1kg
- **Dimensions**: 2465±2mm×1134±2mm×35±1mm
- **Cable Cross Section Size**: 4mm² (IEC) / 12 AWG (UL)
- **No. of cells**: 156 (6×26)
- **Junction Box**: IP68, 3 diodes
- **Connector**: MC4+EVO2/ QC 4.10-35
- **Cable Length (Including Connector)**: Portrait: 300mm (+400mm (-)); Landscape: 1500mm (+1500mm (-))
- **Packaging Configuration**: 31pcs/Pallet, 496pcs/40HQ Container

**ELECTRICAL PARAMETERS AT STC**

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<tbody>
<tr>
<td>Rated Maximum Power (Pmax) [W]</td>
<td>580</td>
<td>585</td>
<td>590</td>
<td>595</td>
<td>600</td>
<td>605</td>
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<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>53.11</td>
<td>53.20</td>
<td>53.30</td>
<td>53.40</td>
<td>53.50</td>
<td>53.61</td>
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<tr>
<td>Maximum Power Voltage (Vmp) [V]</td>
<td>44.35</td>
<td>44.56</td>
<td>44.80</td>
<td>45.05</td>
<td>45.30</td>
<td>45.53</td>
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<tr>
<td>Short Circuit Current (Isc) [A]</td>
<td>13.84</td>
<td>13.88</td>
<td>13.93</td>
<td>13.98</td>
<td>14.03</td>
<td>14.08</td>
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<tr>
<td>Module Efficiency [%]</td>
<td>20.7</td>
<td>20.9</td>
<td>21.1</td>
<td>21.3</td>
<td>21.5</td>
<td>21.6</td>
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<tr>
<td>Power Tolerance</td>
<td>0.05%</td>
<td>0.05%</td>
<td>0.05%</td>
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<tr>
<td>Temperature Coefficient of Isc (a_Isc)</td>
<td>+0.045%°C</td>
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<tr>
<td>Temperature Coefficient of Voc (b_Voc)</td>
<td>-0.275%°C</td>
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<tr>
<td>Temperature Coefficient of Pmax (α_Pmp)</td>
<td>-0.350%°C</td>
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<tr>
<td>STC</td>
<td>Irradiance 1000W/m², cell temperature 25°C, AM1.5G</td>
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**ELECTRICAL PARAMETERS AT NOCT**

- **Rated Max Power (Pmax) [W]**: 436, 442, 446, 450, 454, 458
- **Open Circuit Voltage (Voc) [V]**: 50.45, 50.59, 50.72, 50.86, 51.01, 51.17
- **Max Power Voltage (Vmp) [V]**: 42.55, 42.69, 42.82, 42.94, 43.07, 43.21
- **Short Circuit Current (Isc) [A]**: 11.02, 11.07, 11.13, 11.19, 11.25, 11.30
- **Max Power Current (Imp) [A]**: 10.30, 10.36, 10.42, 10.48, 10.54, 10.60
- **NOCT**
  - Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

*The mounting installation by 400mm spaced holes is not applicable for JAM78S30 MR.

**CHARACTERISTICS**

- **Current-Voltage Curve**: JAM78S30-595/MR
- **Power-Voltage Curve**: JAM78S30-595/MR
- **Current-Voltage Curve**: JAM78S30-595/MR

**Premium Cells, Premium Modules**