340W Bifacial Mono PERC Double Glass Module
JAM60D09 320-340/BP/1500V Series

Introduction

These double-glass modules assembled with bifacial PERCIUM cells have the capability of converting lights incident on their rear side into electricity on top of what is being generated by the front side, making them the best-performed and the most cost-effective modules in terms of solar energy generation as well as tolerance for harsh environment and extreme weather conditions.

3%~15% more energy generation
framed design, ease of transportation and installation
Superior low irradiance performance
Excellent temperature dependent performance

Superior Warranty

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

0.5% Annual Degradation Over 30 years

<table>
<thead>
<tr>
<th>Year</th>
<th>1</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watt</td>
<td>100%</td>
<td>92.8%</td>
<td>86.6%</td>
<td>82%</td>
<td>77.4%</td>
<td>73.2%</td>
<td>69.4%</td>
</tr>
<tr>
<td>0.5%</td>
<td>100%</td>
<td>97.5%</td>
<td>95.0%</td>
<td>92.5%</td>
<td>90%</td>
<td>87.5%</td>
<td>85%</td>
</tr>
</tbody>
</table>

Additional Value From 30-Year Warranty  |  JA Standard

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems

Shanghai JA Solar Technology Co., Ltd.
**OPERATING CONDITIONS**

- **Maximum System Voltage:** 1500V DC (IEC)
- **Operating Temperature:** -40°C ~ +85°C
- **Maximum Series Fuse:** 20A
- **Maximum Static Load, Front:** 336 N
- **Maximum Static Load, Back:** 352 N
- **Max Power Voltage (Vmp) [V]:**
  - JAM60D09-320/BP/1500V: 33.49
  - JAM60D09-325/BP/1500V: 33.75
  - JAM60D09-330/BP/1500V: 34.03
  - JAM60D09-335/BP/1500V: 34.32
  - JAM60D09-340/BP/1500V: 34.53
- **Short Circuit Current (Isc) [A]:**
  - JAM60D09-320/BP/1500V: 10.09
  - JAM60D09-325/BP/1500V: 10.16
  - JAM60D09-330/BP/1500V: 10.24
  - JAM60D09-335/BP/1500V: 10.30
  - JAM60D09-340/BP/1500V: 10.37
- **Max Power Current (Imp) [A]:**
  - JAM60D09-320/BP/1500V: 9.56
  - JAM60D09-325/BP/1500V: 9.63
  - JAM60D09-330/BP/1500V: 9.70
  - JAM60D09-335/BP/1500V: 9.78
  - JAM60D09-340/BP/1500V: 9.85
- **Module Efficiency [%]:**
  - JAM60D09-320/BP/1500V: 19.0
  - JAM60D09-325/BP/1500V: 19.3
  - JAM60D09-330/BP/1500V: 19.6
  - JAM60D09-335/BP/1500V: 19.9
  - JAM60D09-340/BP/1500V: 20.2

**CHARACTERISTICS**

- **Country of Manufacturer:** China/Vietnam
- **Cable Length (Including Connector):**
  - Portrait: 300mm (+)/ 400mm (-)
  - Landscape: 1000mm (+)/ 1000mm (-)
- **Measurement tolerance at STC:** Pmax ±3%, Voc ±2%, and Isc ±4%
- **Bifaciality:** \( P_{max, rear}/R_{max, front} \)
- **Irradiance:** 1000W/m², cell temperature 25°C, AM1.5G

**ELECTRICAL PARAMETERS AT STC**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>JAM60D09-320/BP/1500V</th>
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<th>JAM60D09-330/BP/1500V</th>
<th>JAM60D09-335/BP/1500V</th>
<th>JAM60D09-340/BP/1500V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Maximum Power (Pmax) [W]</td>
<td>320</td>
<td>325</td>
<td>330</td>
<td>335</td>
<td>340</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>40.79</td>
<td>41.05</td>
<td>41.30</td>
<td>41.57</td>
<td>41.85</td>
</tr>
<tr>
<td>Maximum Power Voltage (Vmp) [V]</td>
<td>33.49</td>
<td>33.75</td>
<td>34.03</td>
<td>34.27</td>
<td>34.53</td>
</tr>
<tr>
<td>Short Circuit Current (Isc) [A]</td>
<td>10.09</td>
<td>10.16</td>
<td>10.24</td>
<td>10.30</td>
<td>10.37</td>
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<tr>
<td>Module Efficiency [%]</td>
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<td>19.3</td>
<td>19.6</td>
<td>19.9</td>
<td>20.2</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

- **Cell:** Mono
- **Weight:** 25.4kg ±3%
- **Dimensions:** 1682 ± 2mm × 1000 ± 2mm × 30 ± 1mm
- **Cable Cross Section Size:** 4mm²
- **No. of cells:** 60 (6x10)
- **Connector:** PV-KST4-EVO2/xy, PV-KBT4-EVO2/xy QC4.10-35/45
- **Country of Manufacturer:** China/Vietnam

**MECHANICAL DIAGRAMS**

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**Remark:**
- Customized frame color and cable length available upon request.