Introduction

The modules assembled with half cells not only generate more power output, but also perform better during daily operation as a result of lower temperature coefficient of power, along with reduced shading effect on the energy generation, lower risk of hot spot, and enhanced tolerance for mechanical loading.

Poly 295W Half-Cell Module
JAP60S10 275-295/SC/1500V Series

Introduction

- Higher output power
- Lower temperature coefficient
- Less shading effect
- 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
- OHSAS 18001: 2007 Occupational health and safety management systems
### ELECTRICAL PARAMETERS AT STC

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<tbody>
<tr>
<td>Rated Maximum Power (Pmax) [W]</td>
<td>275</td>
<td>280</td>
<td>285</td>
<td>290</td>
<td>295</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>37.95</td>
<td>38.14</td>
<td>38.31</td>
<td>38.48</td>
<td>38.65</td>
</tr>
<tr>
<td>Maximum Power Voltage (Vmp) [V]</td>
<td>31.22</td>
<td>31.47</td>
<td>31.71</td>
<td>31.91</td>
<td>32.14</td>
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<tr>
<td>Module Efficiency [%]</td>
<td>16.3</td>
<td>16.6</td>
<td>16.9</td>
<td>17.2</td>
<td>17.5</td>
</tr>
</tbody>
</table>

#### Power Tolerance
- 0 to 5W
- +0.054% / °C
- -0.300% / °C
- -0.370% / °C

#### Temperature Coefficient
- of Voc (β_Voc) -0.300% / °C
- of Isc (α_Isc) +0.054% / °C
- of Pmax (γ_Pmp) -0.370% / °C

**STC**
- Irradiance 1000W/m², 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. Measurement tolerance at STC: Pmax ±3%, Voc ±2% and Isc ±4%.

### ELECTRICAL PARAMETERS AT NOCT

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<tbody>
<tr>
<td>Rated Max Power (Pmax) [W]</td>
<td>204</td>
<td>208</td>
<td>212</td>
<td>216</td>
<td>220</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>36.75</td>
<td>36.90</td>
<td>37.05</td>
<td>37.23</td>
<td>37.40</td>
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<tr>
<td>Max Power Voltage (Vmp) [V]</td>
<td>29.39</td>
<td>29.59</td>
<td>29.78</td>
<td>29.96</td>
<td>30.14</td>
</tr>
<tr>
<td>Short Circuit Current (Isc) [A]</td>
<td>7.40</td>
<td>7.49</td>
<td>7.58</td>
<td>7.67</td>
<td>7.75</td>
</tr>
<tr>
<td>Max Power Current (Imp) [A]</td>
<td>6.94</td>
<td>7.03</td>
<td>7.12</td>
<td>7.21</td>
<td>7.30</td>
</tr>
</tbody>
</table>

#### NOCT
- Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

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### OPERATING CONDITIONS

- Maximum System Voltage: 1500V DC (IEC)
- Operating Temperature: -40°C to +65°C
- Maximum Series Fuse: 20A
- Maximum Static Load, Front: 3600Pa, 1.5
- Maximum Static Load, Back: 1600Pa, 1.5
- NOCT: 45±2°C
- Application Class: Class A

### CHARACTERISTICS

- Current-Voltage Curve: JAP60S10-285/SC/1500V
- Power-Voltage Curve: JAP60S10-285/SC/1500V
- Current-Voltage Curve: JAP60S10-285/SC/1500V