# Amorphous Silicon Solar Cells Specification

**Model: AM-5610CAR**

## 1. Outside dimensions

**Light Receiving Side (受光面)**

**Overcoat Side (オーバーコート面)**

**Glass Juts (4 Corners)**

- **Width:** 0.6MAX
- **Length:** 15MAX

**Effective Area**

- (3.2) 18.6±0.2 (3.2)
- (1.2) 17.6±0.2

**Effective Area**

- (1.2)

**Lead Wires:** AWG30
- a: 70
- b: 70

## 2. Rated Specifications (at 25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications (Initial)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1 Open circuit voltage:Voc</td>
<td>Typical 5.1V at 50kLux SS</td>
</tr>
<tr>
<td>2.2 Short circuit Current:Iscc</td>
<td>Typical 2.4mA at 50kLux SS</td>
</tr>
<tr>
<td>2.3 Operating Voltage &amp; Operating Current:Vope-Iope</td>
<td>Minimum 3.0V - 1.7mA at 50kLux SS</td>
</tr>
<tr>
<td></td>
<td>Typical 3.3V - 2.3mA at 50kLux SS</td>
</tr>
<tr>
<td></td>
<td>Typical 3.3V - 5.1mA at AM-1.5 100W/cm²</td>
</tr>
<tr>
<td>2.4 Maximum output:Pmax &amp; optimum operating Volt:Vop</td>
<td>(reference) 8mW Vop=3.9V Iop=2.2mA at 50kLux SS</td>
</tr>
<tr>
<td></td>
<td>(reference) 16mW Vop=3.3V Iop=4.6mA at AM-1.5 100W/cm²</td>
</tr>
<tr>
<td>2.5 Working temperature range:Topr</td>
<td>-10 to 60°C</td>
</tr>
<tr>
<td>2.6 Storage temperature range:Tstg</td>
<td>-20 to 70°C</td>
</tr>
</tbody>
</table>

**Note**

- **Glass Substrate Thickness:** 1.8mm±0.2
- **Module Thickness:** 2.2mmMAX
- **Wire-Overcoat Thickness:** 3.3mmMAX (including Module)

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*SS: Solar Simulator*

Panasonic Eco Solutions Amerton Co., Ltd.
*The data are meant to show standard electric characteristics only, not intended to guarantee the characteristics.
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