The Q.ANTUM solar module Q.PLUS L-G4.1 is the strongest module of its type on the market globally. Powered by 72 Q CELLS solar cells Q.PLUS L-G4.1 was specially designed for large solar power plants to reduce BOS costs. Only Q CELLS offers German engineering quality with our unique triple Yield Security.

**Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY**
Higher yield per surface area and lower BOS costs and higher power classes.

**INNOVATIVE ALL-WEATHER TECHNOLOGY**
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

**ENDURING HIGH PERFORMANCE**
Long-term yield security with Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.

**EXTREME WEATHER RATING**
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (2400 Pa).

**A RELIABLE INVESTMENT**
Inclusive 12-year product warranty and 25-year linear performance warranty².

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¹ APT test conditions: Cells at -1500 V against grounded, with conductive metal foil covered module surface, 25°C, 168h
² See data sheet on rear for further information.
### MECHANICAL SPECIFICATION

**Format**
1994 mm × 1000 mm × 35 mm (including frame)

**Weight**
24 kg

**Front Cover**
3.2mm thermally pre-stressed glass with anti-reflection technology

**Back Cover**
Composite film

**Frame**
Anodised aluminium

**Cell**
6 × 12 Q.ANTUM solar cells

**Junction box**
85-111 × 60-80 × 15-19 mm, Protection class

**Connector**
JMTHY PV-JM601 or Tonglin TL-Cable01S, IP67

**Cable**
4 mm² Solar cable; (+) ≥ 1200 mm, ≥ (-) 1200 mm

**Back Cover**
Composite film

**Frame**
Anodised aluminium

**Cell**
6 × 12 Q.ANTUM solar cells

**Junction box**
85-111 × 60-80 × 15-19 mm, Protection class

**Connector**
JMTHY PV-JM601 or Tonglin TL-Cable01S, IP67

### ELECTRICAL CHARACTERISTICS

**POWER CLASS**
330 335 340

**MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC**
(Power Tolerance +5W/-0W)

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>330</th>
<th>335</th>
<th>340</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit current</td>
<td>9.49</td>
<td>9.54</td>
<td>9.59</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>46.55</td>
<td>46.81</td>
<td>47.07</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>8.91</td>
<td>8.97</td>
<td>9.03</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>37.02</td>
<td>37.33</td>
<td>37.63</td>
</tr>
<tr>
<td>Efficiency</td>
<td>±16.5</td>
<td>±16.8</td>
<td>±17.1</td>
</tr>
</tbody>
</table>

**MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NOC**

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>244.7</th>
<th>248.4</th>
<th>252.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit current</td>
<td>7.65</td>
<td>7.69</td>
<td>7.73</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>43.44</td>
<td>43.68</td>
<td>43.92</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>6.99</td>
<td>7.04</td>
<td>7.09</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>35.01</td>
<td>35.29</td>
<td>35.56</td>
</tr>
</tbody>
</table>

### Q CELLS PERFORMANCE WARRANTY

**PERFORMANCE AT LOW IRRADIANCE**


### TEMPERATURE COEFFICIENTS

<table>
<thead>
<tr>
<th>Temperature Coefficient of (I_{SC})</th>
<th>(\alpha) (%/K)</th>
<th>+0.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient of (V_{OC})</td>
<td>(\beta) (%/K)</td>
<td>−0.29</td>
</tr>
</tbody>
</table>

### PROPERTIES FOR SYSTEM DESIGN

<table>
<thead>
<tr>
<th>Maximum System Voltage</th>
<th>(V_{oc}) (V)</th>
<th>1000 (IEC) / 1000 (UL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Reverse Current</td>
<td>(I_{sc}) (A)</td>
<td>15</td>
</tr>
<tr>
<td>Wind/Snow Load</td>
<td>(in accordance with IEC 61215)</td>
<td>2400/5400</td>
</tr>
</tbody>
</table>

### QUALIFICATIONS AND CERTIFICATES

<table>
<thead>
<tr>
<th>Safety Class</th>
<th>II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Rating</td>
<td>C / TYPE 1</td>
</tr>
</tbody>
</table>

### NOTE
Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.