Q.PEAK DUO-G7
325-335
ENDURING HIGH PERFORMANCE

**Q.ANTUM TECHNOLOGY: LOW LEVELISED COST OF ELECTRICITY**
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 20.2%.

**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 LID Technology, Anti PID Technology, 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 (4000 Pa).

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

**STATE OF THE ART MODULE TECHNOLOGY**
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

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1. APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 h)
2. See data sheet on rear for further information.

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**THE IDEAL SOLUTION FOR:**
- Rooftop arrays on residential buildings
- Rooftop arrays on commercial and industrial buildings

Engineered in Germany
**MECHANICAL SPECIFICATION**

- **Format**: 66.3 in x 39.4 in x 1.26 in (including frame)  
  (1685mm x 1000mm x 32mm)
- **Weight**: 41.2 lbs (18.7 kg)
- **Front Cover**: 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
- **Back Cover**: Composite film
- **Frame**: Black anodized aluminum
- **Cell**: 6 x 20 monocrystalline Q.ANTUM solar half cells
- **Junction Box**: 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in
- **Cable**: 4mm² Solar cable; (+) ≥ 43.3 in (1100 mm), (−) ≥ 43.3 in (1100 mm)
- **Modules**: 0.13 in (3.2 mm) thermally pre-stressed glass with Black anodized aluminum

**Composite film**

- **Dimension**: 66.3 in × 39.4 in × 1.26 in (including frame)

**2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in**

**38.58” (980 mm) × 66.3” (1685 mm) × 1.26” (32 mm)**

**ELECTRICAL CHARACTERISTICS**

**POWER CLASS**

<table>
<thead>
<tr>
<th>Minimum Performance at Standard Test Conditions, STC (Power Tolerance +5W / −0W)</th>
<th>325</th>
<th>330</th>
<th>335</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP(^1)</td>
<td>P&lt;sub&gt;MPP&lt;/sub&gt; [W]</td>
<td>325</td>
<td>330</td>
</tr>
<tr>
<td>Short Circuit Current(^1)</td>
<td>I&lt;sub&gt;SC&lt;/sub&gt; [A]</td>
<td>10.10</td>
<td>10.15</td>
</tr>
<tr>
<td>Open Circuit Voltage(^1)</td>
<td>V&lt;sub&gt;OC&lt;/sub&gt; [V]</td>
<td>40.36</td>
<td>40.62</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>I&lt;sub&gt;MPP&lt;/sub&gt; [A]</td>
<td>9.61</td>
<td>9.67</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V&lt;sub&gt;MPP&lt;/sub&gt; [V]</td>
<td>33.81</td>
<td>34.14</td>
</tr>
<tr>
<td>Efficiency(^1)</td>
<td>η [%]</td>
<td>≥19.3</td>
<td>≥19.6</td>
</tr>
</tbody>
</table>

**Minimum Performance at Normal Operating Conditions, NMOT\(^2\)**

| Power at MPP | P<sub>MPP</sub> [W] | 243.4 | 247.1 | 250.9 |
| Short Circuit Current | I<sub>SC</sub> [A] | 8.14 | 8.18 | 8.22 |
| Open Circuit Voltage | V<sub>OC</sub> [V] | 38.06 | 38.31 | 38.55 |
| Current at MPP | I<sub>MPP</sub> [A] | 7.57 | 7.61 | 7.65 |
| Voltage at MPP | V<sub>MPP</sub> [V] | 32.17 | 32.48 | 32.79 |

\(^1\)Measurement tolerances P<sub>MPP</sub> ± 5%, I<sub>SC</sub> ± 5% at STC: 1000 W/m², 25±2 °C, AM 1.5 according to IEC 60904-3 • 800 W/m², NMOT, spectrum AM 1.5

**Q CELLS PERFORMANCE WARRANTY**

- Performance at Low Irradiance
  - Typical module performance under low irradiance conditions in comparison to STC conditions (25°C: 1000 W/m²).
  - At least 96% of nominal power during first year. Thereafter max. 0.54% degradation per year. At least 93.1% of nominal power up to 10 years. At least 85% of nominal power up to 25 years.
  - All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective country.

**TEMPERATURE COEFFICIENTS**

| Temperature Coefficient of I<sub>SC</sub> | α [% / K] | +0.04 |
| Temperature Coefficient of V<sub>OC</sub> | β [% / K] | −0.27 |
| Temperature Coefficient of P<sub>MPP</sub> | γ [% / K] | −0.35 |

**Nominal Module Operating Temperature NMOT [°F]**

- 109 ± 5.4 (43 ± 3 °C)

**PROPERTIES FOR SYSTEM DESIGN**

- **Maximum System Voltage**: V<sub>VS</sub> [V] 1000 (IEC)/1000 (UL)
- **PV module classification**: Class II
- **Maximum Series Fuse Rating**: 20
- **Fire Rating based on ANSI / UL 61730 TYPE 2**
- **Permitted Module Temperature on Continuous Duty**
  - −40°F up to +185°F
  - −40°C up to +85°C

**QUALIFICATIONS AND CERTIFICATES**

- **Solar cells**

**PACKAGING INFORMATION**

- **Horizontal Packaging**: 1730mm 1700mm 1200mm 1399lbs 28 pallets 26 modules
- **Vertical Packaging**: 1790mm 4761mm 1040mm 1208mm 1399lbs 28 pallets 32 modules

**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. Q CELLS supplies solar modules in two different stacking methods, depending on the location of manufacture (modules are packed horizontally or vertically). You can find more detailed information in the document ‘Packaging and Transport Information’, available from Q CELLS.

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