THE IDEAL SOLUTION FOR:

- Rooftop arrays on commercial/industrial buildings
- Ground-mounted solar power plants

**Q.PEAK DUO L-G7.2**

**390-410**

**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 20.6%.

**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 (2400 Pa).

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

**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.
MECHANICAL SPECIFICATION

Format 79.3 in × 39.4 in × 1.38 in (including frame)  
(2015 mm × 1000 mm × 35 mm)
Weight 51.8 lbs (23.5 kg)
Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover Composite film
Frame Anodized aluminum
Cell 6 × 24 monocrystalline Q.AN.TUM solar half cells
 Junction Box 2.09–3.98 × 1.26–2.36 × 0.59–0.71 in (53–101 × 32–60 × 15–18 mm), Protection class IP67, with bypass diodes
Cable 4mm² Solar cable; (+) ≥ 53.1 in (1350 mm), (−) ≥ 53.1 in (1350 mm)
Connector Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-8, JMTTH JM601A, Tongling Cable01S-F, IP68 or Friends PV2e; IP67

ELECTRICAL CHARACTERISTICS

POWER CLASS 390 395 400 405 410
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / −0 W)

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>P_{MP} [W]</th>
<th>390</th>
<th>395</th>
<th>400</th>
<th>405</th>
<th>410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current</td>
<td>I_{SC} [A]</td>
<td>10.10</td>
<td>10.14</td>
<td>10.19</td>
<td>10.23</td>
<td>10.28</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V_{OC} [V]</td>
<td>48.44</td>
<td>48.70</td>
<td>48.96</td>
<td>49.22</td>
<td>49.48</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V_{MP} [V]</td>
<td>40.57</td>
<td>40.90</td>
<td>41.23</td>
<td>41.56</td>
<td>41.88</td>
</tr>
<tr>
<td>Efficiency</td>
<td>η [%]</td>
<td>≥ 19.4</td>
<td>≥ 19.6</td>
<td>≥ 19.9</td>
<td>≥ 20.1</td>
<td>≥ 20.3</td>
</tr>
</tbody>
</table>

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>P_{MP} [W]</th>
<th>292.1</th>
<th>296.8</th>
<th>299.6</th>
<th>303.3</th>
<th>307.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current</td>
<td>I_{SC} [A]</td>
<td>8.14</td>
<td>8.17</td>
<td>8.21</td>
<td>8.24</td>
<td>8.28</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V_{OC} [V]</td>
<td>45.67</td>
<td>45.92</td>
<td>46.17</td>
<td>46.41</td>
<td>46.66</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>I_{MP} [A]</td>
<td>7.57</td>
<td>7.60</td>
<td>7.64</td>
<td>7.67</td>
<td>7.71</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V_{MP} [V]</td>
<td>38.60</td>
<td>38.92</td>
<td>39.23</td>
<td>39.54</td>
<td>39.84</td>
</tr>
</tbody>
</table>

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)

TEMPERATURE COEFFICIENTS

| Temperature Coefficient of I_{SC} | α [% / K] | +0.04 |
| Temperature Coefficient of V_{OC} | β [% / K] | −0.27 |
| Temperature Coefficient of P_{MP} | γ [% / K] | −0.35 |

Nominal Module Operating Temperature NMOT °F 109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage | V_{MAX} [V] | 1500 (IEC)/1500 (UL) |
PV module classification | Class II |
Maximum Series Fuse Rating | [A DC] | 20 |
Fire Rating based on ANSI / UL 61730 TYPE 1
Permitted Module Temperature on Continuous Duty −40 °F up to +185 °F
(−40 °C up to +85 °C)

QUALIFICATIONS AND CERTIFICATES


PACKAGING INFORMATION

| Horizontal packaging | 81.1 in | 40.9 in | 47.1 in | 1588 lbs | 24 | 22 | 29 |
| Vertical packaging | 84.6 in | 45.3 in | 46.1 in | 1635 lbs | 27 | 22 | 29 |

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.