Q.PEAK DUO L-G5
380-405
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 20.3%.

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 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.

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

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.

THE IDEAL SOLUTION FOR:
- Rooftop arrays on commercial/industrial buildings
- Ground-mounted solar power plants

Engineered in Germany
MECHANICAL SPECIFICATION

Format: 79.3 in x 39.4 in x 1.38 in (including frame)  
(2015 mm x 1000 mm x 35 mm)

Weight: 50.7 lbs (23 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 x 24 monocrystalline Q.ANTUM solar half cells

 Junction Box: 2.09-3.98 x 1.26-2.36 x 0.59-0.71 in (53-101 x 32-60 x 15-18 mm), protection class IP67, with bypass diodes

Cable: 4 mm² Solar cable, (±) ≥ 53.1 in (1350 mm), (−) ≥ 53.1 in (1350 mm)

Connector: Stäubli MC4, Hanwha Q CELLS HQC4, AmpereX UX, Renhe 05-6, Tongling TL-Cable015, JMYTH JYM01, IP68 or Friends PV2e, IP67

ELECTRICAL CHARACTERISTICS

POWER CLASS

<table>
<thead>
<tr>
<th>Module</th>
<th>380</th>
<th>385</th>
<th>390</th>
<th>395</th>
<th>400</th>
<th>405</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP</td>
<td>P_{MPP} [W]</td>
<td>380</td>
<td>385</td>
<td>390</td>
<td>395</td>
<td>400</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>I_{SC} [A]</td>
<td>10.05</td>
<td>10.10</td>
<td>10.14</td>
<td>10.19</td>
<td>10.24</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V_{OC} [V]</td>
<td>47.95</td>
<td>48.21</td>
<td>48.48</td>
<td>48.74</td>
<td>49.00</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V_{MP} [V]</td>
<td>39.71</td>
<td>40.05</td>
<td>40.38</td>
<td>40.71</td>
<td>41.04</td>
</tr>
</tbody>
</table>

η [%] ≥ 18.9 ≥ 19.1 ≥ 19.4 ≥ 19.6 ≥ 19.8 ≥ 20.1

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / −0 W)

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. Warranty valid in accordance with warranty terms of Q CELLS sales or distribution organisation of your respective country.

TEMPERATURE COEFFICIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Temperature Coefficient</th>
<th>[% / K]</th>
</tr>
</thead>
<tbody>
<tr>
<td>I_{SC}</td>
<td>α</td>
<td>+0.04</td>
</tr>
<tr>
<td>V_{SC}</td>
<td>β</td>
<td>−0.27</td>
</tr>
<tr>
<td>P_{MPP}</td>
<td>γ</td>
<td>−0.36</td>
</tr>
</tbody>
</table>

Nominal Module Operating Temperature NMOT [°F] 109.5 ± 4.3 (43 ± 3 °C)

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)

PROPERTIES FOR SYSTEM DESIGN

<table>
<thead>
<tr>
<th>System Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum System Voltage V_{MAX} [V]</td>
<td>1000 (IEC) / 1000 (UL)</td>
</tr>
<tr>
<td>PV module classification</td>
<td>Class II</td>
</tr>
<tr>
<td>Maximum Series Fuse Rating [A DC]</td>
<td>20</td>
</tr>
<tr>
<td>Fire Rating based on ANSI / UL 61730</td>
<td>TYPE 2</td>
</tr>
<tr>
<td>Max. Design Load, Push / Pull [lbs / ft²]</td>
<td>75 (3600 Pa) / 33 (1800 Pa)</td>
</tr>
<tr>
<td>Permitted Module Temperature on Continuous Duty</td>
<td>−40 °F up to +185 °F (−40 °C up to +85 °C)</td>
</tr>
<tr>
<td>Max. Test Load, Push / Pull [lbs / ft²]</td>
<td>113 (5400 Pa) / 50 (2400 Pa)</td>
</tr>
</tbody>
</table>

QUALIFICATIONS AND CERTIFICATES


PACKAGING INFORMATION

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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