The new Q.PEAK DUO BLK-G5 solar module from Q CELLS impresses with its outstanding visual appearance and particularly high performance on a small surface thanks to the innovative Q.ANTUM DUO Technology. Q.ANTUM’s world-record-holding cell concept has now been combined with state-of-the-art circuitry half cells and a six-busbar design, thus achieving outstanding performance under real conditions — both with low-intensity solar radiation as well as on hot, clear summer days.

Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.3%.

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

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID Technology, Anti PID Technology\(^1\), Hot-Spot Protect and Traceable Quality Tra.Q\(^\text{™}\).

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa) regarding IEC.

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance guarantee\(^2\).

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

THE IDEAL SOLUTION FOR:
Rooftop arrays on residential buildings

Engineered in Germany
**MECHANICAL SPECIFICATION**

- **Format**: 66.3 in × 39.4 in × 1.26 in (including frame)  
  (1685 mm × 1000 mm × 32 mm)
- **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
- **Junction box**: 6 × 20 monocrystalline Q.ANTUM solar half-cells
- **Connector**: Multi-Contact MC4, IP68
- **Cable**: 4 mm² Solar cable; (+) ≥ 43.3 in (1100 mm), (−) ≥ 43.3 in (1100 mm)

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Power Class</th>
<th>300</th>
<th>305</th>
<th>310</th>
<th>315</th>
<th>320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP</td>
<td>P_{mpp} (W)</td>
<td>300</td>
<td>305</td>
<td>310</td>
<td>315</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V_{mpp} (V)</td>
<td>39.48</td>
<td>39.75</td>
<td>40.02</td>
<td>40.29</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>I_{mpp} (A)</td>
<td>9.25</td>
<td>9.31</td>
<td>9.36</td>
<td>9.41</td>
</tr>
<tr>
<td>Efficiency</td>
<td>η (%)</td>
<td>≥ 17.8</td>
<td>≥ 18.1</td>
<td>≥ 18.4</td>
<td>≥ 18.7</td>
</tr>
</tbody>
</table>

**MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC¹ (POWER TOLERANCE +5 W / −0 W)**

**MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²**

**Q CELLS PERFORMANCE WARRANTY**

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

**PERFORMANCE AT LOW IRRADIANCE**

**THERMAL PERFORMANCE**

**TEMPERATURE COEFFICIENTS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Value</th>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient of V_{oc}</td>
<td>α</td>
<td>[%/K]</td>
<td>+0.04</td>
<td>-0.28</td>
</tr>
<tr>
<td>Temperature Coefficient of P_{mpp}</td>
<td>γ</td>
<td>[%/K]</td>
<td>-0.37</td>
<td></td>
</tr>
<tr>
<td>Normal Operating Module Temperature</td>
<td>NMOT</td>
<td>°C</td>
<td>109 ± 5.4 (43 ± 3 °C)</td>
<td></td>
</tr>
</tbody>
</table>

**PROPERTIES FOR SYSTEM DESIGN**

- **Maximum System Voltage V_{sys}**: 1000 (IEC) / 1000 (UL)
- **Maximum Series Fuse Rating (A DC)**: 20
- **Max. Design Load, Push / Pull (UL)²**: 75 (3600 Pa) / 55 (2667 Pa)
- **Max. Test Load, Push / Pull (UL)²**: 113 (5400 Pa) / 84 (4000 Pa)

**QUALIFICATIONS AND CERTIFICATES**

- UL 1703; VDE Quality Tested; CE-compliant; IEC 61215:2016; IEC 61730:2016, Application class A

**PACKAGING INFORMATION**

- Number of Modules per Pallet: 32
- Number of Pallets per 53’’ Trailer: 30
- Number of Pallets per 40’’ High Cube Container: 26
- Pallet Dimensions (L × W × H): 69.3 in × 45.3 in × 46.9 in (1760 mm × 1150 mm × 1190 mm)
- Pallet Weight: 1415 lbs (642 kg)

**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.