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 LEVELISED 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 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 (4000 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.

**THE IDEAL SOLUTION FOR:**
Rooftop arrays on residential buildings

Engineered in Germany

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

Format 1685 mm × 1000 mm × 32 mm (including frame)

Weight 18.7 kg

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

Back Cover Composite film

Frame Black anodised aluminium

Cell 6 × 20 monocrystalline Q.ANTUM solar half cells

Junction box 70-85 mm × 13-21 mm Protection class IP67, with bypass diodes

Cable 4 mm² Solar cable; (+) 1100 mm, (−) 1100 mm

Connector Multi-Contact MC4, IP68

Q CELLS PERFORMANCE WARRANTY PERFORMANCE AT LOW IRRADIANCE

- At least 98% 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.

ELECTRICAL CHARACTERISTICS

POWER CLASS

<table>
<thead>
<tr>
<th>Power at MPP (W)</th>
<th>300</th>
<th>305</th>
<th>310</th>
<th>315</th>
<th>320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current (A)</td>
<td>9.72</td>
<td>9.78</td>
<td>9.83</td>
<td>9.89</td>
<td>9.94</td>
</tr>
<tr>
<td>Open Circuit Voltage (V)</td>
<td>39.48</td>
<td>39.75</td>
<td>40.02</td>
<td>40.29</td>
<td>40.56</td>
</tr>
<tr>
<td>Current at MPP (A)</td>
<td>9.25</td>
<td>9.31</td>
<td>9.36</td>
<td>9.41</td>
<td>9.47</td>
</tr>
<tr>
<td>Voltage at MPP (V)</td>
<td>32.43</td>
<td>32.78</td>
<td>33.12</td>
<td>33.46</td>
<td>33.80</td>
</tr>
<tr>
<td>Efficiency (%)</td>
<td>≥ 17.8</td>
<td>≥ 18.1</td>
<td>≥ 18.4</td>
<td>≥ 18.7</td>
<td>≥ 19.0</td>
</tr>
</tbody>
</table>

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT

| Power at MPP (W) | 224.1 | 227.8 | 231.6 | 235.3 | 239.1 |
| Short Circuit Current (A) | 7.83 | 7.88 | 7.92 | 7.97 | 8.01 |
| Open Circuit Voltage (V) | 37.15 | 37.40 | 37.66 | 37.91 | 38.17 |
| Current at MPP (A) | 7.28 | 7.32 | 7.37 | 7.41 | 7.45 |
| Voltage at MPP (V) | 30.78 | 31.11 | 31.44 | 31.76 | 32.08 |

TEMPERATURE COEFFICIENTS

- Temperature Coefficient of $P_{mpp} \alpha (\%/K) = +0.04$
- Temperature Coefficient of $V_{oc} \beta (\%/K) = -0.28$
- Temperature Coefficient of $I_{sc} \gamma (\%/K) = -0.37$
- Normal Module Operating Temperature NMOT °C = $43 \pm 3$

PROPERTIES FOR SYSTEM DESIGN

- Maximum System Voltage $V_{bus} (V) = 1000$
- Maximum Reverse Current $I_{r} (A) = 20$
- Max. Design Load, Push / Pull (Pa) = 3600/2667
- Max. Test load, Push / Pull (Pa) = 5400/4000
- Safety Class II
- Fire Rating C
- Permitted Module Temperature on Continuous Duty - 40 °C up to +85 °C

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016, Application class II

This data sheet complies with DIN EN 50380.

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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.