Q.PEAK DUO BLK ML-G10 SERIES

385 - 405 Wp | 132 Cells
20.6% Maximum Module Efficiency

MODEL Q.PEAK DUO BLK ML-G10

Breaking the 20% efficiency barrier
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 20.6%.

Enduring high performance
Long-term yield security with Anti LeTID Technology, Anti PID Technology\(^1\), Hot-Spot Protect.

Extreme weather rating
High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).

Innovative all-weather technology
Optimal yields, whatever the weather with excellent low-light and temperature behaviour.

A reliable investment
Inclusive 12-year product warranty and 25-year linear performance warranty\(^2\).

The most thorough testing programme in the industry
Qcells is the first solar module manufacturer to pass the most comprehensive quality programme in the industry: The new “Quality Controlled PV” of the independent certification institute TÜV Rheinland.

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1 APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)
2 See data sheet on rear for further information.

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The ideal solution for:
Rooftop arrays on residential buildings
Q.PEAK DUO BLK ML-G10 SERIES

### Mechanical Specification

- **Format**: 74.0 in x 41.1 in x 1.26 in (including frame)  
  (1879 mm x 1045 mm x 32 mm)
- **Weight**: 48.5 lbs (22.0 kg)
- **Front Cover**: 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
- **Back Cover**: Composite film
- **Frame**: Black anodised aluminium
- **Cell**: 6 x 22 monocrystalline Q.ANTUM solar half cells
- **Junction box**: Stäubli MC4; IP68
- **Connector**: Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass
- **Cable**: 49.2 in (1250 mm), (−) ≥ 49.2 in (1250 mm)

### Electrical Characteristics

#### Power Class

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>385</th>
<th>390</th>
<th>395</th>
<th>400</th>
<th>405</th>
</tr>
</thead>
<tbody>
<tr>
<td>P&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>385</td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>11.04</td>
<td>11.07</td>
<td>11.10</td>
<td>11.14</td>
<td>11.17</td>
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<tr>
<td>Open Circuit Voltage</td>
<td>45.19</td>
<td>45.23</td>
<td>45.27</td>
<td>45.30</td>
<td>45.34</td>
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<tr>
<td>Current at MPP</td>
<td>10.59</td>
<td>10.65</td>
<td>10.71</td>
<td>10.77</td>
<td>10.83</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>36.36</td>
<td>36.62</td>
<td>36.88</td>
<td>37.13</td>
<td>37.39</td>
</tr>
<tr>
<td>Efficiency</td>
<td>≥ 19.6</td>
<td>≥ 19.9</td>
<td>≥ 20.1</td>
<td>≥ 20.4</td>
<td>≥ 20.6</td>
</tr>
</tbody>
</table>

#### Minimum Performance at Standard Test Conditions, STC (Power Tolerance +5 W/−0 W)

- **Power at MPP**: 288.8 / 292.6 / 296.3 / 300.1 / 303.8
- **Short Circuit Current**: 8.90 / 8.92 / 8.95 / 8.97 / 9.00
- **Open Circuit Voltage**: 42.62 / 42.65 / 42.69 / 42.72 / 42.76
- **Current at MPP**: 8.35 / 8.41 / 8.46 / 8.51 / 8.57
- **Voltage at MPP**: 34.59 / 34.81 / 35.03 / 35.25 / 35.46

#### Qcells Performance Warranty

- **Relative Efficiency Compared to Nominal Power (%)**

#### 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

- **Maximum System Voltage (V<sub>SYS</sub>)**: 1000 (IEC)/1000 (UL)
- **Maximum Series Fuse Rating**: 20
- **Max. Design Load, Push/Pull**: 75 (3600 Pa)/55 (2660 Pa)
- **Max. Test Load, Push/Pull**: 113 (5400 Pa)/84 (4000 Pa)

#### Qualifications and Certificates

- **Fire Rating based on ANSI/UL 61730**
- **Permitted Module Temperature on Continuous Duty**: −40°F up to +185°F

Qcells pursues minimizing paper output in consideration of the global environment.

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Specifications subject to technical changes.

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