Q.PEAK DUO XL-G10 SERIES

475-490 Wp | 156 Cells
21.2% Maximum Module Efficiency

MODEL Q.PEAK DUO XL-10.3/BFG

**Bifacial energy yield gain of up to 20%**
Bifacial Q.ANTUM solar cells with zero gap cell layout make efficient use of light shining on the module rear-side for radically improved LCOE.

**Low electricity generation costs**
Q.ANTUM DUO Z combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 21.2%.

**A reliable investment**
Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty.

**Enduring high performance**
Long-term yield security with Anti LeTID Technology, Anti PID Technology, Hot-Spot Protect.

**Frame for versatile mounting options**
High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400 Pa) and wind loads (2400 Pa).

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

---

1. See data sheet on rear for further information.

2. APT test conditions according to IEC/TS 62804-1:2015 method B (-1500V, 168h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD).

---

The ideal solution for:
- Ground mounted solar panels
### Mechanical Specification

**Format**
- 87.2 in \( \times \) 411 in \( \times \) 1.38 in (including frame)  
- (2216 mm \( \times \) 1045 mm \( \times \) 35 mm)

**Weight**
- 64.2 lbs (29.1 kg)

**Front Cover**
- 0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology

**Back Cover**
- 0.08 in (2.0 mm) semi-tempered glass

**Frame**
- Anodized aluminum

**Cell**
- 6 \( \times \) 26 monocrystalline Q.ANTUM solar half cells

**Junction box**
- 6 \( \times \) 26 monocrystalline Q.ANTUM solar half cells

**Back Plate**
- 0.08 in (2.0 mm) semi-tempered glass

**Connector**
- Stäubli MC4, Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, IP68

**Cable**
- 4 mm\(^2\) Solar cable; (+) \( \pm \) 55.1 in (1400 mm), (-) \( \pm \) 55.1 in (1400 mm)

**Note**
- UL 61730, CE-compliant, Qcells pursues minimizing paper output in consideration of the global environment.

### Electrical Characteristics

#### Power Class

<table>
<thead>
<tr>
<th>Power Class</th>
<th>475</th>
<th>480</th>
<th>485</th>
<th>490</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP(^3)</td>
<td>475</td>
<td>519.6</td>
<td>525.0</td>
<td>530.5</td>
</tr>
<tr>
<td>Short Circuit Current(^3)</td>
<td>11.08</td>
<td>12.12</td>
<td>11.12</td>
<td>11.16</td>
</tr>
<tr>
<td>Open Circuit Voltage(^3)</td>
<td>53.15</td>
<td>53.34</td>
<td>53.39</td>
<td>53.58</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>10.55</td>
<td>11.54</td>
<td>10.59</td>
<td>11.58</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>45.03</td>
<td>45.02</td>
<td>45.33</td>
<td>45.32</td>
</tr>
<tr>
<td>Efficiency(^4)</td>
<td>≥ 20.5</td>
<td>≥ 20.7</td>
<td>≥ 20.9</td>
<td>≥ 21.2</td>
</tr>
</tbody>
</table>

**Bifaciality of** Power at MPP and Current at MPP: 70% \( \pm \) 5% \( \pm \) Bifaciality given for rear side irradiation on top of STC (front side) • According to IEC 60904-1-2

**Minimum Performance at Normal Operating Conditions, NMOT\(^2\)**

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>3576</th>
<th>3614</th>
<th>3651</th>
<th>368.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current</td>
<td>8.92</td>
<td>8.96</td>
<td>8.99</td>
<td>9.02</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>50.27</td>
<td>50.49</td>
<td>50.72</td>
<td>50.95</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>8.30</td>
<td>8.34</td>
<td>8.37</td>
<td>8.40</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>43.06</td>
<td>43.35</td>
<td>43.63</td>
<td>43.92</td>
</tr>
</tbody>
</table>

800 W/m\(^2\), NMOT, spectrum AM 1.5

#### Qcells PERFORMANCE WARRANTY

- At least 98% of nominal power during first year. Thereafter max. 0.45% degradation per year. At least 93.5% of nominal power up to 10 years. At least 84.95% of nominal power up to 30 years.
- All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organisation of your respective country.

#### Performance at Low IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m\(^2\)).

#### Temperature Coefficients

- Temperature Coefficient of Power at MPP
- Temperature Coefficient of Short Circuit Current
- Temperature Coefficient of Open Circuit Voltage
- Temperature Coefficient of Current at MPP
- Nominal Module Operating Temperature

**Properties for System Design**

- Maximum System Voltage \( V_{sys} \) [V]: 1500
- Maximum Series Fuse Rating [A DC]: 20
- Max. Design Load, Push/Pull\(^6\) [lbs/ft\(^2\)]: 75 (3600 Pa)/33 (1600 Pa)
- Max. Test Load, Push/Pull\(^6\) [lbs/ft\(^2\)]: 113 (5400 Pa)/50 (2400 Pa)

See Installation Manual

#### Qualifications and Certificates

- UL 61730 Certified
- CE-compliant
- IEC 61215:2016