BREAKING THE 20% EFFICIENCY BARRIER
Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.

THE MOST THOROUGH TESTING PROGRAMME IN THE INDUSTRY
Q CELLS 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.

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 Technology1, Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminum alloy frame, certified for high snow (6000 Pa) and wind loads (4000 Pa).

A RELIABLE INVESTMENT
Inclusive 12-year product warranty and 25-year linear performance warranty2.

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

THE IDEAL SOLUTION FOR:
- Rooftop arrays on residential buildings
- Rooftop arrays on commercial / industrial buildings

Engineered in Germany
### MECHANICAL SPECIFICATION

- **Format**: 72.4 in × 40.6 in × 1.26 in (including frame)
- **Weight**: 43.0 lbs (19.5 kg)
- **Front Cover**: 0.11 in (2.8 mm) thermally pre-stressed glass with anti-reflection technology
- **Back Cover**: Composite film
- **Frame**: Black anodized aluminum
- **Cell**: 6 × 22 monocrystalline Q.ANTUM solar half cells
- **Junction Box**: 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
- **Cable**: 4 mm² Solar cable; (+) ≥ 47.2 in (1200 mm), (−) ≥ 47.2 in (1200 mm)
- **Connector**: Stäubli MCA, Hanwha Q CELLS HQC4, IP68

### ELECTRICAL CHARACTERISTICS

#### POWER CLASS

<table>
<thead>
<tr>
<th>Module Size</th>
<th>375</th>
<th>380</th>
<th>385</th>
<th>390</th>
<th>395</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP</td>
<td>P&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>W</td>
<td>375</td>
<td>380</td>
<td>385</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>I&lt;sub&gt;SC&lt;/sub&gt;</td>
<td>A</td>
<td>10.62</td>
<td>10.65</td>
<td>10.68</td>
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<tr>
<td>Open Circuit Voltage</td>
<td>V&lt;sub&gt;OC&lt;/sub&gt;</td>
<td>V</td>
<td>44.96</td>
<td>44.99</td>
<td>45.03</td>
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<tr>
<td>Current at MPP</td>
<td>I&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>A</td>
<td>10.09</td>
<td>10.14</td>
<td>10.20</td>
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<tr>
<td>Voltage at MPP</td>
<td>V&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>V</td>
<td>37.18</td>
<td>37.46</td>
<td>37.74</td>
</tr>
<tr>
<td>Efficiency</td>
<td>η</td>
<td>%</td>
<td>≥ 19.8</td>
<td>≥ 20.1</td>
<td>≥ 20.3</td>
</tr>
</tbody>
</table>

#### PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT

<table>
<thead>
<tr>
<th>Module Size</th>
<th>375</th>
<th>380</th>
<th>385</th>
<th>390</th>
<th>395</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP</td>
<td>P&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>W</td>
<td>280.8</td>
<td>284.6</td>
<td>288.3</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>I&lt;sub&gt;SC&lt;/sub&gt;</td>
<td>A</td>
<td>8.55</td>
<td>8.58</td>
<td>8.60</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V&lt;sub&gt;OC&lt;/sub&gt;</td>
<td>V</td>
<td>43.39</td>
<td>43.43</td>
<td>43.46</td>
</tr>
<tr>
<td>Current at MPP</td>
<td>I&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>A</td>
<td>7.93</td>
<td>7.99</td>
<td>8.04</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V&lt;sub&gt;MPP&lt;/sub&gt;</td>
<td>V</td>
<td>35.39</td>
<td>35.64</td>
<td>35.87</td>
</tr>
</tbody>
</table>

#### ELECTRICAL PROPERTIES FOR SYSTEM DESIGN

- **Maximum System Voltage**: V<sub>max</sub> = 1000 (IEC)/1000 (UL) V
- **PV Module Classification**: Class II
- **Maximum Series Fuse Rating**: [A DC] 20 TYPE 2
- **Fire Rating based on ANSI / UL 61730**: Fire Rating based on ANSI / UL 61730
- **Permitted Module Temperature on Continuous Duty**: −40 °F to +185 °F

### QUALIFICATIONS AND CERTIFICATES

- UL 61730, CE-compliant

### PACKAGING AND TRANSPORT INFORMATION

#### Horizontal and Vertical Packaging

- **Horizontal Packaging**: 1890 mm × 1080 mm × 610 mm
- **Vertical Packaging**: 1180 mm × 1185 mm × 610 mm
- **Weight**: 53' HC: 28 lbs, 40' HC: 24 lbs

#### 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.

### Hanwha Q CELLS America Inc.

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