Q.BOOST
375-395
ENDURING HIGH PERFORMANCE

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

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, 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 18-year product warranty and 25-year linear performance warranty.

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
- Rooftop arrays on commercial/industrial buildings

1 See data sheet on rear for further information.
### MECHANICAL SPECIFICATION

- **Format**: 1840 mm × 1030 mm × 32 mm (including frame)
- **Weight**: 19.5 kg
- **Front Cover**: 2.8 mm thermally pre-stressed glass with anti-reflection technology
- **Back Cover**: Composite film
- **Frame**: Black anodised aluminium
- **Cell**: 6 × 22 monocrystalline Q.ANTUM solar half cells
- **Junction box**: 53-101 mm × 32-60 mm × 15-18 mm, Protection class IP67, with bypass diodes
- **Cable**: 4 mm² Solar cable; (+) ≥ 1200 mm, (−) ≥ 1200 mm
- **Connector**: Stäubli MC4, IP68

### ELECTRICAL CHARACTERISTICS

#### POWER CLASS

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5 W / −0 W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P&lt;sub&gt;mp&lt;/sub&gt; [W]</td>
<td>375 380 385 390 395</td>
</tr>
<tr>
<td>I&lt;sub&gt;SC&lt;/sub&gt; [A]</td>
<td>10.62 10.65 10.68 10.71 10.74</td>
</tr>
<tr>
<td>V&lt;sub&gt;OC&lt;/sub&gt; [V]</td>
<td>44.96 45.03 45.06 45.10 45.10</td>
</tr>
<tr>
<td>I&lt;sub&gt;MPP&lt;/sub&gt; [A]</td>
<td>10.09 10.14 10.20 10.26 10.32</td>
</tr>
<tr>
<td>V&lt;sub&gt;MPP&lt;/sub&gt; [V]</td>
<td>37.18 37.46 37.74 38.01 38.29</td>
</tr>
<tr>
<td>η [%]</td>
<td>≥ 19.8 ≥ 20.1 ≥ 20.3 ≥ 20.6 ≥ 20.8</td>
</tr>
</tbody>
</table>

#### MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT<sup>4</sup>

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT&lt;sup&gt;4&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>P&lt;sub&gt;mp&lt;/sub&gt; [W]</td>
<td>280.8 284.6 288.3 292.0 295.8</td>
</tr>
<tr>
<td>I&lt;sub&gt;SC&lt;/sub&gt; [A]</td>
<td>8.55 8.58 8.60 8.63 8.63</td>
</tr>
<tr>
<td>V&lt;sub&gt;OC&lt;/sub&gt; [V]</td>
<td>42.39 42.43 42.46 42.50 42.53</td>
</tr>
<tr>
<td>V&lt;sub&gt;MPP&lt;/sub&gt; [V]</td>
<td>35.39 35.64 35.87 36.11 36.34</td>
</tr>
</tbody>
</table>

#### Q CELLS PERFORMANCE WARRANTY

- At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% 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.

#### TEMPERATURE COEFFICIENTS

- Temperature Coefficient of I<sub>SC</sub>: α [%/K] = +0.04
- Temperature Coefficient of V<sub>OC</sub>: β [%/K] = −0.27
- Temperature Coefficient of P<sub>mp</sub>: γ [%/K] = −0.35

#### PROPERTIES FOR SYSTEM DESIGN

- Maximum System Voltage: V<sub>dc</sub> [V] = 1000
- Power module classification: Class II
- Maximum Reverse Current: I<sub>R</sub> [A] = 20
- Fire Rating based on ANSI / UL 61730: C / TYPE 2
- Permitted Module Temperature on Continuous Duty: −40°C to +85°C

#### QUALIFICATIONS AND CERTIFICATES

- IEC 61215:2016
- IEC 61730:2016
- This data sheet complies with DIN EN 50380
- Certification holder: Hanwha Q CELLS Australia Pty Ltd

#### PACKAGING INFORMATION

- Vertical packaging: 1950mm × 1150mm × 1185mm × 682.5 kg × 28 pallets × 24 pallets × 33 modules

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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.

**Made in Malaysia**

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Engineered in Germany