Q.PEAK DUO-G5+
315-335
AWARD-WINNING HIGH PERFORMANCE

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 20.2%.

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 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

STATE OF THE ART MODULE TECHNOLOGY
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

1 APT test conditions according to IEC/TS 62804-1:2015, method B (−1500 V, 168 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: 1685 mm × 1000 mm × 32 mm (including frame)
Weight: 18.7 kg
Front Cover: 3.2 mm thermally pre-stressed glass with anti-reflective technology
Back Cover: Composite film
Frame: Black anodised aluminium
Cell: 8 × 20 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; (+) ≥ 1100 mm, (−) ≥ 1100 mm
Connector: Stäubli MC4: IP66

ELECTRICAL CHARACTERISTICS

POWER CLASS

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC1 (POWER TOLERANCE +5W / −9W)

Minimum

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>Pmpp [W]</th>
<th>315</th>
<th>320</th>
<th>325</th>
<th>330</th>
<th>335</th>
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</thead>
<tbody>
<tr>
<td>Short Circuit Current¹</td>
<td>Imp [A]</td>
<td>10.04</td>
<td>10.09</td>
<td>10.14</td>
<td>10.20</td>
<td>10.25</td>
</tr>
<tr>
<td>Open Circuit Voltage²</td>
<td>Vmp [V]</td>
<td>39.87</td>
<td>40.13</td>
<td>40.40</td>
<td>40.66</td>
<td>40.92</td>
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<tr>
<td>Voltage at MPP</td>
<td>Vmp [V]</td>
<td>32.98</td>
<td>33.32</td>
<td>33.65</td>
<td>33.98</td>
<td>34.31</td>
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<tr>
<td>Efficiency²</td>
<td>η [%]</td>
<td>≥18.7</td>
<td>≥19.0</td>
<td>≥19.3</td>
<td>≥19.6</td>
<td>≥19.9</td>
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</tbody>
</table>

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>Pmpp [W]</th>
<th>235.8</th>
<th>239.5</th>
<th>243.2</th>
<th>247.0</th>
<th>250.7</th>
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<tbody>
<tr>
<td>Short Circuit Current¹</td>
<td>Imp [A]</td>
<td>8.09</td>
<td>8.13</td>
<td>8.17</td>
<td>8.22</td>
<td>8.26</td>
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<tr>
<td>Open Circuit Voltage²</td>
<td>Vmp [V]</td>
<td>37.59</td>
<td>37.84</td>
<td>38.09</td>
<td>38.34</td>
<td>38.59</td>
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<tr>
<td>Current at MPP</td>
<td>Imp [A]</td>
<td>7.52</td>
<td>7.56</td>
<td>7.60</td>
<td>7.64</td>
<td>7.69</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>Vmp [V]</td>
<td>31.36</td>
<td>31.68</td>
<td>32.00</td>
<td>32.31</td>
<td>32.62</td>
</tr>
</tbody>
</table>

¹Measurement tolerances Pmpp ±3%, Imp ±5% at STC: 1000W/m², 25 ±2°C, AM 1.5 according to IEC 60904-3.
²Industry standard for tiered warranties.
³Industry standard for linear warranties.

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.

TEMPERATURE COEFFICIENTS

Temperature Coefficient of Imp: α [% / K] +0.04
Temperature Coefficient of Vmp: β [% / K] −0.27
Temperature Coefficient of Pmpp: γ [% / K] −0.36

NORMAL MODULE OPERATING TEMPERATURE

NMOT [°C] 43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage | Vsys [V] | 1000 | Safety Class | II |
Maximum Reverse Current | Is [A] | 20 | Fire Rating based on ANSI UL 1703 | C |
Max. Design Load, Push/Pull | [P] | 600/2667 | Permitted Module Temperature on Continuous Duty | −40°C - +85°C |
Max. Test Load, Push/Pull | [P] | 5400/4000 |

QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested: IEC 61215:2016, IEC 61730:2016, Application Class II; This data sheet complies with DIN EN 50380.

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 Korea

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Engineered in Germany