Q.PEAK DUO-G7
315-330
ENDURING 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 19.9%.

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 Technology¹, 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 12-year product warranty and 25-year linear performance warranty².

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 and industrial buildings

Q.CELLS
Engineered in Germany
MECHANICAL SPECIFICATION

Format 66.3 in × 39.4 in × 1.26 in (including frame) (1685mm × 1000mm × 32mm)

Weight 41.2 lbs (18.7 kg)

Front Cover 0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology

Back Cover Composite film

Frame Black anodized aluminum

Cell 6 × 20 monocrystalline Q ANTUM solar half cells

Junction Box 2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101mm × 32-60mm × 15-18mm), IP67, with bypass diodes

Connector Stäubli MC4, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-6, Tongli TL-Cable015, JMTHY JM601, IP68 or Friends PV2e, IP67

Cable 4 mm² Solar cable, (+) ≥ 43.3 in (1100 mm), (−) ≥ 43.3 in (1100 mm)

ELECTRICAL CHARACTERISTICS

POWER CLASS 315 320 325 330

MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC (POWER TOLERANCE +5W / −0W)

<table>
<thead>
<tr>
<th>Power at MPP1</th>
<th>P MPP [W]</th>
<th>315</th>
<th>320</th>
<th>325</th>
<th>330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Circuit Current1</td>
<td>I SC [A]</td>
<td>9.99</td>
<td>10.04</td>
<td>10.10</td>
<td>10.15</td>
</tr>
<tr>
<td>Open Circuit Voltage1</td>
<td>V OC [V]</td>
<td>39.84</td>
<td>40.10</td>
<td>40.36</td>
<td>40.62</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V MPP [V]</td>
<td>33.14</td>
<td>33.47</td>
<td>33.81</td>
<td>34.14</td>
</tr>
<tr>
<td>Efficiency1</td>
<td>η [%]</td>
<td>≥ 18.7</td>
<td>≥ 19.0</td>
<td>≥ 19.3</td>
<td>≥ 19.6</td>
</tr>
</tbody>
</table>

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT2

<table>
<thead>
<tr>
<th>Power at MPP</th>
<th>P MPP [W]</th>
<th>235.9</th>
<th>239.6</th>
<th>243.4</th>
<th>247.1</th>
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</thead>
<tbody>
<tr>
<td>Short Circuit Current</td>
<td>I SC [A]</td>
<td>8.05</td>
<td>8.09</td>
<td>8.14</td>
<td>8.18</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>V OC [V]</td>
<td>37.56</td>
<td>37.81</td>
<td>38.06</td>
<td>38.31</td>
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<tr>
<td>Current at MPP</td>
<td>I MPP [A]</td>
<td>7.48</td>
<td>7.52</td>
<td>7.57</td>
<td>7.61</td>
</tr>
<tr>
<td>Voltage at MPP</td>
<td>V MPP [V]</td>
<td>31.53</td>
<td>31.85</td>
<td>32.17</td>
<td>32.48</td>
</tr>
</tbody>
</table>

Q CELLS PERFORMANCE WARRANTY

PERFORMANCE AT LOW IRRADIANCE

At least 96% 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 I SC α [% / K] +0.04 Temperature Coefficient of V OC β [% / K] −0.27

Temperature Coefficient of P MPP γ [% / K] −0.35

Normal Module Operating Temperature NMOT [°F] 109 ± 5.4 (43 ± 3 °C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V MVS [V] 1000 (IEC)/1000 (UL) Safety Class II

Maximum Series Fuse Rating [A DC] 20 Fire Rating based on ANSI / UL 1703 C (IEC)/ TYPE 2 (UL)

Max. Design Load, Push / Pull1 [lbs / ft²] 75 (3600Pa)/55 (2667Pa)

Max. Test Load, Push / Pull1 [lbs / ft²] 115 (5400Pa)/84 (4000Pa)

PACKAGING INFORMATION

Number of Modules per Pallet 32

Number of Pallets per S3 Trailer 30

Number of Pallets per 40’ HC-Container 26

Pallet Dimensions (L × W × H) 69.3 × 45.3 × 46.9 in (1760 × 1150 × 1190 mm)

Pallet Weight 1415 lbs (642 kg)

QUALIFICATIONS AND CERTIFICATES


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.

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