Q.PEAK DUO BLK-G6
330-345
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 19.5%.

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

Engineered in Germany
MECHANICAL SPECIFICATION

Format 1740 mm × 1030 mm × 32 mm (including frame)
Weight 19.9 kg
Front Cover 3.2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover Composite film
Frame Black anodised aluminium
Cell 6 × 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; (+) ≥ 1150 mm, (−) ≥ 1150 mm
Connector Staubli MC4, Amphenol UTX, Renhe 05-6, Turling TL-CableQ5S, JMTBY JM601, IP68 or Friends PVi2e, IP67

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>POWER CLASS</th>
<th>330</th>
<th>335</th>
<th>340</th>
<th>345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Performance at Standard Test Conditions, STC (Power Tolerance +5 W / −0 W)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power at MPP</td>
<td>$P_{	ext{MPP}}$</td>
<td>W</td>
<td>330</td>
<td>335</td>
</tr>
<tr>
<td>Short Circuit Current</td>
<td>$I_{	ext{SC}}$</td>
<td>A</td>
<td>10.41</td>
<td>10.47</td>
</tr>
<tr>
<td>Open Circuit Voltage</td>
<td>$V_{	ext{OC}}$</td>
<td>V</td>
<td>40.15</td>
<td>40.41</td>
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<tr>
<td>Current at MPP</td>
<td>$I_{	ext{MP}}$</td>
<td>A</td>
<td>9.91</td>
<td>9.97</td>
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<tr>
<td>Voltage at MPP</td>
<td>$V_{	ext{MP}}$</td>
<td>V</td>
<td>33.29</td>
<td>33.62</td>
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<tr>
<td>Efficiency</td>
<td>$\eta$</td>
<td>%</td>
<td>≥ 18.4</td>
<td>≥ 18.7</td>
</tr>
</tbody>
</table>

Minimum Performance at Normal Operating Conditions, NMOT* |

| Power at MPP | $P_{	ext{MPP}}$ | W | 2470 | 2507 | 2545 | 2582 |
| Short Circuit Current | $I_{	ext{SC}}$ | A | 8.39 | 8.43 | 8.48 | 8.52 |
| Open Circuit Voltage | $V_{	ext{OC}}$ | V | 37.86 | 38.10 | 38.34 | 38.59 |
| Current at MPP | $I_{	ext{MP}}$ | A | 7.80 | 7.84 | 7.89 | 7.93 |
| Voltage at MPP | $V_{	ext{MP}}$ | V | 31.66 | 31.97 | 32.27 | 32.57 |

*Measurement tolerances $P_{	ext{MPP}}$ ± 3 %, $I_{	ext{SC}}$, $V_{	ext{OC}}$, ± 5 % at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 G according to IEC 60904-3 • 800 W/m², NMOT, spectrum AM 1.5 G

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 $I_{	ext{SC}}$ $\alpha$ [%/K] +0.04
Temperature Coefficient of $V_{	ext{OC}}$ $\beta$ [%/K] − 0.27
Temperature Coefficient of $P_{	ext{MPP}}$ $\gamma$ [%/K] −0.36

Normal Module Operating Temperature NMOT [°C] 43 ± 3

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage $V_{	ext{dc}}$ [V] 1000 Safety Class II
Maximum Reverse Current $I_{R}$ [A] 20 Fire Rating C
Max. Design Load, Push / Pull [Pa] 3600/2667 Permitted Module Temperature on Continuous Duty −40 °C - +85 °C
Max. Test Load, Push / Pull [Pa] 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.

PACKAGING INFORMATION

Number of Modules per Pallet 32
Number of Pallets per Trailer (241) 28
Number of Pallets per 40’ HC-Container (261) 24
Pallet Dimensions (L × W × H) 1815 × 1150 × 1190 mm
Pallet Weight 683 kg

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.

Hanwha Q CELLS GmbH
Sonnenaallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

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