Q. PEAK DUO BLK-G6+
330-345
ENDURING HIGH PERFORMANCE

Q.ANTUM TECHNOLOGY: LOW LEVELIZED 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 behavior.

ENDURING HIGH PERFORMANCE
Long-term yield security with Anti LID and Anti PID Technology1, Hot-Spot Protect and Traceable Quality Tra.Q™.

EXTREME WEATHER RATING
High-tech aluminum 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

Engineered in Germany
### MECHANICAL SPECIFICATION

**Format**  
68.5 x 40.6 x 1.26 in (including frame)  
(1740 x 1030 x 32 mm)

**Weight**  
43.9 lbs (19.9 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 x 20 monocrystalline Q A N T U M solar half cells

**Junction Box**  
2.09-3.98 x 1.26-2.36 x 0.59-0.71 in (53-101 x 32-60 x 15-18 mm), Protection class IP 67, with bypass diodes

**Connector**  
Staubli MC4, Hanwha Q CELLS HQC 4, Amphenol UTX, Reneh 05-6, Tongli Tl-Cable015, J MTHY JM601, IP68 or Friends PV2e; IP67

### ELECTRICAL CHARACTERISTICS

**POWER CLASS**

<table>
<thead>
<tr>
<th>Minimum Performance at Standard Test Conditions, STC (Power Tolerance +5 W −0 W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power at MPP ( P_{MPP} ) [W]</td>
</tr>
<tr>
<td>Short Circuit Current ( I_{SC} ) [A]</td>
</tr>
<tr>
<td>Open Circuit Voltage ( V_{OC} ) [V]</td>
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<tr>
<td>Current at MPP ( I_{MP} ) [A]</td>
</tr>
<tr>
<td>Voltage at MPP ( V_{MP} ) [V]</td>
</tr>
<tr>
<td>Efficiency ( \eta ) [%]</td>
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</tbody>
</table>

**MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT**

<table>
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<tr>
<th>Minimum Performance at Normal Operating Conditions, NMOT</th>
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<td>Power at MPP ( P_{MPP} ) [W]</td>
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<tr>
<td>Short Circuit Current ( I_{SC} ) [A]</td>
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</tr>
</tbody>
</table>

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

### Q CELLS PERFORMANCE WARRANTY

- 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 organization of your respective country.

### PERFORMANCE AT LOW IRRADIANCE

Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²)

### TEMPERATURE COEFFICIENTS

| Temperature Coefficient of \( I_{SC} \) | \( \alpha \) [% / K] | +0.04 | Temperature Coefficient of \( V_{OC} \) | \( \beta \) [% / K] | -0.27 |
| Temperature Coefficient of \( P_{MPP} \) | \( \gamma \) [% / K] | -0.36 |

### PROPERTIES FOR SYSTEM DESIGN

- Maximum System Voltage \( V_{SYS} \) [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) |

### QUALIFICATIONS AND CERTIFICATES

- Number of Modules per Pallet | 32 |
- Number of Pallets per 53' Trailer | 28 |
- Number of Pallets per 40' HC-Container | 24 |
- Pallet Dimensions (L x W x H) | 71.5 x 45.3 x 48.0 in (1815 x 1150 x 1220 mm) |
- Pallet Weight | 1505 lbs (683 kg) |

### PACKAGING INFORMATION

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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