Q.PEAK DUO-G8+
340-360
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 20.4%.

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 25-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/industrial 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 x 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**
Stäubli MC4, Hanwha Q CELLS HQC4; IP68

### ELECTRICAL CHARACTERISTICS

**POWER CLASS**

<table>
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<tr>
<th>Minimum Performance at Standard Test Conditions, STC** (Power Tolerance +5 W / −0 W)</th>
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<tr>
<td>Power at MPP(^1) (P_{\text{MPP}}) [W]</td>
</tr>
<tr>
<td>Short Circuit Current(^2) (I_{\text{SC}}) [A]</td>
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<tr>
<td>Open Circuit Voltage(^2) (V_{\text{OC}}) [V]</td>
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<td>Voltage at MPP (V_{\text{MPP}}) [V]</td>
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<tr>
<td>Efficiency(^2) (\eta) [%]</td>
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#### Minimum Performance at Normal Operating Conditions, NMOT\(^3\)

| Power at MPP \(P_{\text{MPP}}\) [W] | 254.6 | 258.4 | 262.1 | 265.9 | 269.6 |
| Short Circuit Current \(I_{\text{SC}}\) [A] | 8.56 | 8.61 | 8.65 | 8.69 | 8.74 |
| Open Circuit Voltage \(V_{\text{OC}}\) [V] | 37.91 | 38.14 | 38.38 | 38.61 | 38.85 |
| Current at MPP \(I_{\text{MPP}}\) [A] | 7.96 | 8.00 | 8.05 | 8.09 | 8.13 |
| Voltage at MPP \(V_{\text{MPP}}\) [V] | 31.98 | 32.28 | 32.57 | 32.87 | 33.16 |

\(^1\) Measurement tolerances \(P_{\text{MPP}}\) ± 3 %, \(I_{\text{SC}}\), \(V_{\text{OC}}\) ± 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**

**PERFORMANCE AT LOW IRRADIANCE**

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

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 \(I_{\text{SC}}\) \(a\) [% / K]**: +0.04
- **Temperature Coefficient of \(V_{\text{OC}}\) \(b\) [% / K]**: −0.35
- **Temperature Coefficient of \(P_{\text{MPP}}\) \(\gamma\) [% / K]**: −0.27

### PROPERTIES FOR SYSTEM DESIGN

- **Maximum System Voltage \(V_{\text{oc}}\) [V]**: 1000
- **PV module classification**: Class II
- **Maximum Reverse Current \(I_{\text{R}}\) [A]**: 20
- **Fire Rating based on ANSI / UL 1703 C / TYPE 2**
- **Max. Design Load, Push / Pull [Pa]**: 3600 / 2667
- **Permitted Module Temperature on Continuous Duty**: −40°C to +85°C
- **Max. Test Load, Push / Pull [Pa]**: 5400 / 4000

### QUALIFICATIONS AND CERTIFICATES

VDE Quality Tested, IEC 61215:2016; IEC 61730:2016; 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 \((L \times W \times H)\)**: 1815 × 1150 × 1220 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.

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